

User Guide



Nokia 6600

User Guide

What information is needed?	Numbers	Where is the number?
My number		Wireless service provider
Voice mail number		Wireless service provider
Wireless provider's number		Wireless service provider
Provider's customer care		Wireless service provider
Model number		Label on back of phone (under battery). See "Find the phone's label" on page 14.
Phone type		Back of title page
IMEI number		Label on back of phone (under battery). See "Find the phone's label" on page 14.

The wireless phone described in this guide is approved for use in the 900/1800 and 1900 GSM networks in North and South America.

LEGAL INFORMATION

CE 168

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US Patent No 5818437 and other pending patents. T9 text input software

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Your device may cause TV or radio interference (for example, when using a telephone in close proximity to receiving equipment). The FCC or Industry Canada can require you to stop using your telephone if such interference cannot be eliminated. If you require assistance, contact your local service facility. This device complies with part 15 of the FCC rules. Operation is subject to the condition that this device does not cause harmful interference.

Manufactured or sold under one or more of the following US patents:

4868846	4945633	5001372	5101175	5151946	5173927	5212834	5230091
5241583	5311151	5317283	5331638	5335362	5353328	5371481	5378935
5384782	5396657	5400949	5416435	5442521	5446364	5479476	5526366
5553125	5557639	5565821	5570369	5581244	5600708	5625274	5677620
5692032	5729541	5760568	5794142	5802465	5809413	5827082	5839101
5844884	5845219	5870683	5884103	5889770	5907823	5912570	5914690
5914796	5917868	5920826	5956332	5956625	5956633	5966378	5977887
5987137	5991857	6006114	6011853	6014551	6014573	6026161	6035189
6038238	6043760	6047196	6049796	6050415	6055439	6060193	6069923
6072787	6081732	6084920	6084962	6094587	6097964	6105784	6112099
6115617	6119180	6121846	6128509	6138091	6140966	6144243	6144676
6148209	6151485	6151507	6163609	6164547	6167248	6185295	6188909
6249584	6259312	6266330	6272361	6282436	6292668	6295286	6311054
6314166	6324389	6324412	6347218	6363259	6370362	6370389	6377820
6381468	6392660	6400958	6453179	6463278	6470470	6487397	6522670
6198928	4969192	5266782	5390223	5444816	5487084	5640395	5664053
5699482	5701392	5722074	5754976	5805301	5835889	5857151	5859843
5862178	5898925	5930233	5946651	5960354	5960389	5963901	6005857
6011971	6031827	6118775	6128322	6137789	6167248	6170073	6178535
6195338	6199035	6240076	6266321	6285888	6356759	6377803	6430163
6438370	6456237	RE32580	5818437	5953541	6011554	4558302	

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1 For your safety

Read these simple guidelines. Not following them may be dangerous or illegal. Read the complete user guide for further information.



SWITCH ON SAFELY

Do not switch the phone on when wireless phone use is prohibited or when it may cause interference or danger.



ROAD SAFETY COMES FIRST

Obey all local laws. Always keep your hands free to operate the vehicle while driving. Your first consideration while driving should be road safety.



INTERFERENCE

All wireless phones may be susceptible to interference, which could affect performance.



SWITCH OFF IN HOSPITALS

Follow any restrictions. Switch the phone off near medical equipment.



SWITCH OFF IN AIRCRAFT

Follow any restrictions. Wireless devices can cause interference in aircraft.



SWITCH OFF WHEN REFUELING

Don't use the phone at a refueling point. Don't use near fuel or chemicals.



SWITCH OFF NEAR BLASTING

Follow any restrictions. Don't use the phone where blasting is in progress.



USE SENSIBLY

Use only in the normal position as explained in the product documentation. Don't touch the antenna unnecessarily.



QUALIFIED SERVICE

Only qualified personnel may install or repair this product.



ENHANCEMENTS AND BATTERIES

Use only approved enhancements and batteries. Do not connect incompatible products.



WATER-RESISTANCE

Your phone is not water-resistant. Keep it dry.



BACK-UP COPIES

Remember to make back-up copies or keep a written record of all important information stored in your phone.



CONNECTING TO OTHER DEVICES

When connecting to any other device, read its user guide for detailed safety instructions. Do not connect incompatible products.



EMERGENCY CALLS

Ensure the phone is switched on and in service. Press the **End** key as many times as needed to clear the display and return to the main screen. Enter the emergency number, then press the **Talk** key. Give your location. Do not end the call until given permission to do so.

• ABOUT YOUR DEVICE

The wireless device described in this guide is approved for use on the 900/1800 and 1900 GSM networks. Contact your service provider for more information about networks.

When using the features in this device, obey all laws and respect privacy and legitimate rights of others.



Warning: To use any features in this device, other than the alarm clock, the phone must be switched on. Do not switch the device on when wireless phone use may cause interference or danger.

• NETWORK SERVICES

To use the phone you must have service from a wireless service provider. Many of the features in this device depend on features in the wireless network to function. These Network Services may not be available on all networks or you may have to make specific arrangements with your service provider before you can utilize Network Services. Your service provider may need to give you additional instructions for their use and explain what charges will apply. Some networks may have limitations that affect how you can use Network Services. For instance, some networks may not support all language-dependent characters and services.

Your service provider may have requested that certain features be disabled or not activated in your device. If so, they will not appear on your device menu. Contact your service provider for more information.

- **SHARED MEMORY**

The following features in this device may share memory: contacts, text messages and multimedia messages, images and ringing tones, video recorder, RealOne Player™, calendar and to-do notes, and downloaded applications. Use of one or more of these features may reduce the memory available for the remaining features sharing memory. For example, saving many images may use all of the available memory. Your phone may display a message that the memory is full when you try to use a shared memory feature. In this case, delete some of the information or entries stored in the shared memory features before continuing. Some of the features, such as address book, messages, images, and calendar may have a certain amount of memory specially allotted to them in addition to the memory shared with other features.

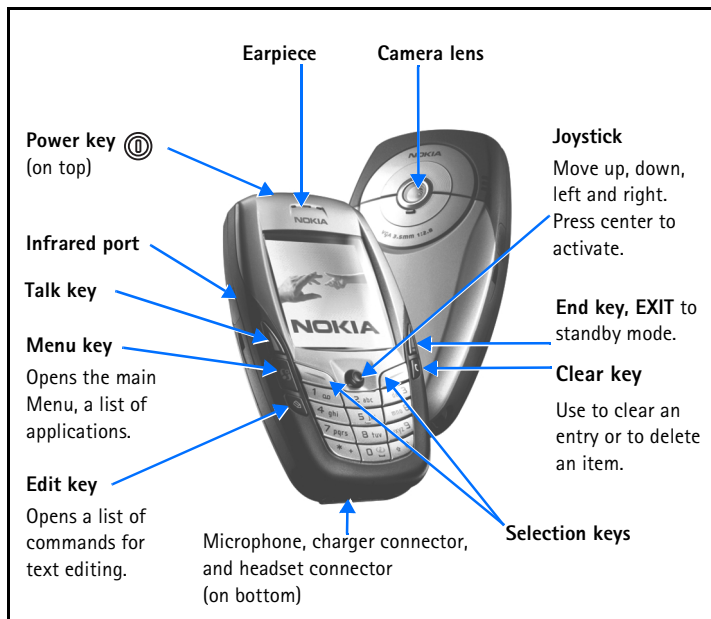
2 General information

Your Nokia 6600 phone provides various functions that are handy for daily use, such as Camera, Video recorder, Messaging, E-mail, Wallet, Clock, Calculator, and Calendar.



Warning: All of the features in this device, other than the alarm clock require the phone to be switched on to use the features. Do not switch the device on when wireless phone use may cause interference or danger.

• UNDERSTANDING YOUR PHONE

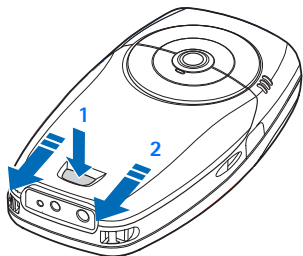


Inserting the SIM card



Note: Before removing the cover, always switch off the power and disconnect the phone from the charger or any other device. Always store and use the phone with the cover attached.

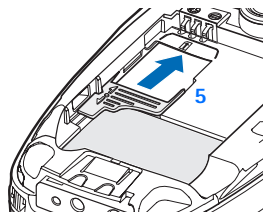
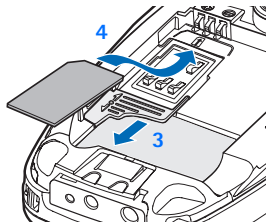
- Keep all SIM cards out of the reach of small children. For availability and information on using SIM card services, contact your SIM card vendor. This may be the service provider, or other vendor.
- 1 Open the cover: With the back of the phone facing you, press the locking catch (1) in the direction of the arrow and slide the cover (2).



- 2 Find the SIM card slot. Ensure that the catch is slid towards the bottom of the phone until it reaches its lowest position (3).

The catch is used to secure both the SIM card and memory card.

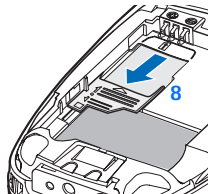
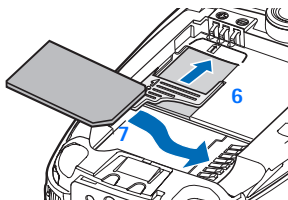
- 3 Position the SIM card at the opening of the aperture at the top of the slot (4). Make sure that the bevelled corner on the SIM card is facing towards the top of the phone and that the golden contact area on the card is facing downwards.
- 4 Carefully slide the SIM card up, until the bottom of the SIM card fits in the base of the slot. Slide the catch up to its mid-point position (5) to secure the SIM card in its place.



Inserting the memory card

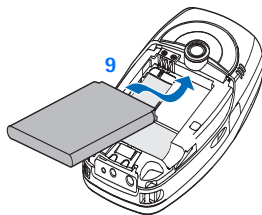
- Keep all memory cards out of the reach of small children.
- See 'Inserting the SIM card' section for details on removing the cover.
 - Find the memory card slot. Ensure that the catch is slid towards the top of the phone until it reaches its highest position (6).
 - Position the memory card at the opening of the aperture at the right of the slot (7). Make sure that the bevelled corner on the memory card is facing towards the right of the phone and that the golden contact area on the card is facing downwards.
 - Carefully slide the memory card to the right, until the memory card fits in the slot. Slide the catch down to its mid-point position (8) to secure the memory card in its place.

If the catch is moved past the mid-point to its lowest position the SIM card will no longer be secured.



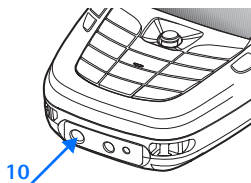
Inserting the battery

- Align the golden contacts of the battery with the corresponding connectors on the phone (9), and push the opposite end of the battery until it snaps into place.
- Slide the cover back onto the phone.



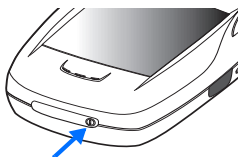
Charging the battery

- 1 Connect the power cord to the charger. You will hear it click into place.
- 2 Connect the charger to an AC wall outlet.
- 3 Connect the power cord from the charger to the base of the phone (10). The battery indicator bar starts scrolling. Note that you can use the phone while charging.
- 4 When the battery is fully charged, the bar stops scrolling. Disconnect the charger from the AC outlet and then from the phone. See the 'Battery information' chapter.



Switching the phone on (or off)

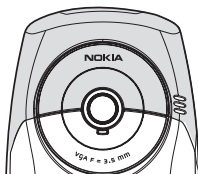
Press and hold the power key .



Antenna

TIPS ON EFFICIENT OPERATION

Your phone has a built-in antenna (highlighted area in picture). As with any other radio transmitting device, do not touch the antenna unnecessarily when the phone is switched on. Contact with the antenna affects call quality and may cause the phone to operate at a higher power level than otherwise needed. Avoiding contact with the antenna area when operating the phone optimizes the antenna performance and the battery life.



NORMAL POSITION

Hold the phone as you would any other telephone with the antenna pointed up and over your shoulder.

IF THE PHONE REQUESTS A PIN CODE:

The PIN code is usually supplied with the SIM card.

- Key in the code (displayed as ****) and press .



IF THE PHONE REQUESTS A LOCK CODE:

- Key in the lock code (displayed as *****) and press .

The factory setting for the lock code is **12345**. For more information on the access codes, see the 'Tools' chapter.

Setting the time and date

Use the number keys  -  to key in first the current time and then the date. Press  to accept the settings.

• STANDBY MODE

The indicators described below are shown when the phone is ready for use, with no characters keyed in. In this state, the phone is in 'standby mode'.

A Shows the signal strength of the cellular network at your current location. The higher the bar, the stronger the signal. The antenna symbol  is replaced with the GPRS symbol  when **GPRS connection** has been set to **When available** and a connection is available in the network or in the current cell. See **"Packet data (General Packet Radio Service, GPRS)"** on page 67 and "GPRS" on page 70.

B Shows an analog or a digital clock. See "Date and time" on page 71.

C Indicates in which cellular network the phone is currently being used.

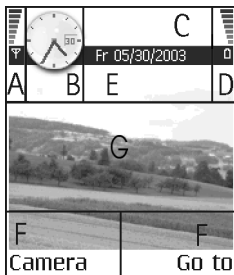
D Shows the battery charge level. The higher the bar, the more power left in the battery.

E Navigation bar: shows the currently active profile. If the selected profile is **Normal**, the current date is displayed instead of the profile name. "Navigation bar - moving horizontally" on page 11.

F Shows the current shortcuts assigned for the selection keys  and .

G Background image: You can select any image to be used as a background image in standby mode. See "Themes" on page 80.

Your phone has a screen saver. If there are no actions for one minute, the display is cleared and a screen saver becomes visible. To deactivate the screen saver, press any key. See "Themes" on page 80.



Indicators related to actions

One or more of the following icons may be shown when the phone is in standby mode:



- Indicates that you have received new messages to the Inbox in Messaging. If the indicator is blinking, the phone memory is low and you must delete some data. See **"Memory low"** on page 108.



- Indicates that you have received new e-mail.



- Indicates that you have received one or several voice messages. See **"Calling your voice mailbox"** on page 16.



- Indicates that there are messages waiting to be sent in Outbox. See **"Messaging - General information"** on page 42.



- Shown when **Ringing type** has been set to **Silent**, **Message alert tone** to **Off**, and **IM alert tone** to **Off** in the currently active profile.



- Indicates that the phone's keypad is locked. See the Getting Started guide.



- Indicates that you have an active alarm.



- Indicates that Bluetooth is active. When data is transmitted via Bluetooth, (BT) is shown.



- Indicates that all calls to the phone are forwarded. - Indicates that all calls to the phone are forwarded to a voice mailbox. See **"Settings for call forwarding"** on page 19. If you have two phone lines, the forward indicator for the first line is and for the second line . See **"Line in use (network service)"** on page 66.



- Indicates that you can make calls using phone line 2 only (network service). See **"Line in use (network service)"** on page 66.

Data connection indicators

- When an application is establishing a data connection, one of the indicators below blinks in standby mode.
- When an indicator is shown continuously, the connection is active.



for a data call, for a high speed data call,

The GPRS symbol is shown instead of the antenna symbol when there is an active GPRS connection, when there are multiple GPRS connections, and for when the GPRS connection is put on hold during voice calls.



for a fax call,



for a Bluetooth connection, and



for an infrared connection.

• MENU

- Press  (Menu key) to display the main Menu. In the Menu, you can access all the applications in your phone.



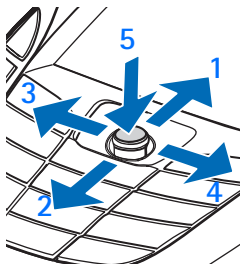
Options in the Menu: [Open](#), [List view](#) / [Grid view](#), [Move](#), [Move to folder](#), [New folder](#), [App. downloads](#), [Memory details](#), [Help](#) and [Exit](#).

Moving in the Menu

- Move the joystick up , down , left  and right  (shown with blue arrows 1 to 4) to navigate the Menu.

Opening applications or folders

- Scroll to an application or a folder and press the center of the joystick  (shown with blue arrow 5) to open it.



Closing applications

- Backstep by pressing [Back](#) or [Exit](#) as many times as needed to return to standby mode or select [Options](#)→ [Exit](#).

If you press and hold , the phone returns to standby mode and the application is left open in the background.



Note: Pressing  will always end a call, even if another application is active and displayed.

When you switch the phone off correctly, using the Power key, the phone will attempt to save any unsaved data and close any applications that are still open. Hence the process may take a short time.

Rearranging the Menu

You can rearrange the Menu icons as required. You can place more rarely used applications in folders and move applications that you use more often from a folder to the main Menu. You can also create new folders.

- 1 Scroll to the item you want to move and select [Options](#)→ [Move](#). A check mark is placed beside the application.
- 2 Move the selection where you want the application to be and press [OK](#).

Switching between applications

If you have several applications open and want to switch from one application to another, press and hold  (Menu key). The application switching window opens showing a list of applications that are currently open. Scroll to an application and press  to go to it.



Note: If memory is getting low, the phone may close some applications. The phone saves any unsaved data before an application is closed.



• OPTIONS LISTS

 **Options:** These lists tell you which commands are available in different views and situations.

The available commands change depending on the view you are in.



Tip: In some situations, when you press the joystick, a shorter options list appears listing the main commands available in the view.

• HELP

Your Nokia phone has a help function that you can access from any application that has the **Options** selection, and can be accessed using the  key. You can also access the help function from the main menu.



• NAVIGATION BAR – MOVING HORIZONTALLY

In the navigation bar, you can see:

- small arrows or tabs that tell you if there are more views, folders, or files you can move to.
- editing indicators. See "Writing text" on page 43.
- other information, for example, **2/14** means that the current picture is the second of 14 pictures in the folder. Press  to see the next picture.



• ACTIONS COMMON TO ALL APPLICATIONS

- **Opening items for viewing** - When you are viewing a list of files or folders, to open an item, scroll to an item and press , or select **Options**→ **Open**.

- **Editing items** - To open an item for editing, you sometimes need to first open it for viewing and then select **Options**→**Edit**, if you want to change its contents. Use the joystick to scroll through all fields of the item.
- **Renaming items** - To give a new name to a file or folder, scroll to it and select **Options**→**Rename**.
- **Removing, deleting items** - Scroll to the item and select **Options**→**Delete** or press . To delete many items at a time, you first need to mark them. See the next paragraph: 'Marking an item'.
- **Marking an item** - There are several ways to select items when you are in a list.
 - To select one item at a time, scroll to it and select **Options**→**Mark/Unmark**→**Mark** or press  and  at the same time. A check mark is placed next to the item.
 - To select all items in the list, select **Options**→**Mark/Unmark**→**Mark all**.
 - **Marking multiple items** - Press and hold , then move the joystick down or up. As the selection moves, a check mark is placed next to the items. To end the selection, stop the scrolling with the joystick and then release .

After you have selected all the items you want, you can move or delete them by selecting **Options**→**Move to folder** or **Delete**.

- To unmark an item, scroll to it and select **Options**→**Mark/Unmark**→**Unmark** or press  and  at the same time.
- **Creating folders** - To create a new folder, select **Options**→**New folder**. You are asked to give a name to the folder (max. 35 letters).
- **Moving items to a folder** - To move items to a folder or between folders, select **Options**→**Move to folder** (not shown if there are no folders available). When you select **Move to folder**, a list of available folders opens and you can also see the root level of the application (for moving an item out of a folder). Select the location you want the item to be moved to and press **OK**.
- **Sending items** - To send items, to compatible devices, scroll to the item that you want to send, select **Options**→**Send**. Select the method, the choices are **Via multimedia**, **Via Bluetooth**, **Via infrared**, and **Via e-mail**.

If you select to send the item in an e-mail or a multimedia message, an editor opens. Press  to select the recipient(s) from the Contacts directory or write the phone number or e-mail address of the recipient in the **To:** field. Add text or sound and select **Options**→**Send**. See "Creating and sending new messages" on page 46.

Via infrared. See "Sending and receiving data via infrared" on page 103.

Via Bluetooth. See "Sending data via Bluetooth" on page 100.

• VOLUME CONTROL

- When you have an active call or are listening to a sound, press  or  to increase or decrease the volume level, respectively.

Voice volume icons:

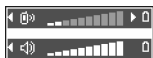
-  - for earpiece mode,
-  - for loudspeaker mode.

Loudspeaker

Your phone has a loudspeaker for handsfree use. The loudspeaker allows you to speak and listen to the phone from a short distance without having to hold the phone to your ear, for example, having it on a table nearby. The loudspeaker can be used during a call, with sound and video applications, and when viewing multimedia messages. Sound and video applications use the loudspeaker by default. Using the loudspeaker makes it easier to use other applications while in a call.

ACTIVATING THE LOUDSPEAKER

To change to using the loudspeaker during an already active call, select **Options**→**Activate loudsp.** A tone is played,  is shown in the navigation bar, and the volume indicator changes.



Note: The loudspeaker cannot be activated when you have connected a headset to the phone. Do not hold the phone near to your ear when the loudspeaker is in use, because the volume may be extremely loud.

The loudspeaker needs to be activated separately each time for phone calls, but the sound applications, such as Recorder, use the loudspeaker by default.

TURNING OFF THE LOUDSPEAKER

- When you have an active call, select **Options**→**Activate handset**.

Headset mode

To adjust the volume level when a headset is connected to your phone, press  or  or use the headset's keys, if available.

• KEYGUARD

Use the keyguard (keypad lock) to help prevent accidental key presses.

In standby mode, press  and then . When the keys are locked,  appears on the display. Press  and then  to unlock the keys.

When keyguard is on, press  to answer a call. During a call, the phone can be operated in the normal way.



Note: When keyguard is on, calls may be possible to the emergency number programed into your phone (e.g. 911 or other official emergency number). Just key in the emergency number and press . The number is displayed only after you have keyed in its last digit.

• GET HELP

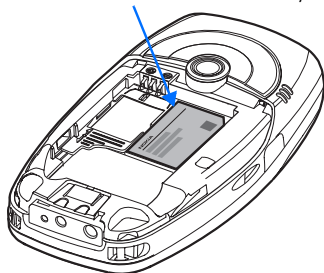
Find the phone's label

If you need help, Nokia Customer Care is available for assistance. Before calling, however, please read "Troubleshooting" on page 108.

We also recommend that you write down the following information so it can be available if you call. The information can be found on back of the phone, beneath the battery.

- The International Mobile Equipment Identifier (IMEI)
- We also ask that you write down your zip code.

Information label under battery



Contact Nokia

Please have your phone or enhancement with you when contacting either of the numbers below.

Nokia Customer Care Center, USA	Customer Care, Canada
Nokia Inc. 7725 Woodland Center Boulevard Suite 150 Tampa, Florida 33614 Tel: 1-888-NOKIA-2U (1-888-665-4228) Fax: 1-813-249-9619 TTY: 1-800-24-NOKIA (hearing impaired only) (1-800-246-6542)	Nokia Products Ltd. 601 Westney Road South Ajax, Ontario L1S 4N7 Tel: 1-888-22-NOKIA (1-888-226-6542) Fax: 1-905-427-1070

• WELCOME TO NOKIA

Congratulations on your purchase of the Nokia 6600 mobile phone. The Nokia 6600 can be connected to a PC, laptop, or other device using the data cable or built-in IR port. For more information, please refer to the PC Connectivity Guide.

The PC Connectivity Guide, Nokia PC Suite, and all related software can be downloaded from the U.S. Mobile Phone products section of **www.nokia.com**.

Get the most out of this guide

The tips that follow can help you get the most from this guide as you learn to use your phone.

FOLLOW GRAPHIC CLUES

Icons appear throughout this guide to alert you of important information or to provide useful tips.



Tip: Indicates a shortcut or alternate method of doing something.



Note: Explains a feature or points out an important concept.



Important: Indicates critical information on using a feature.



Warning: Helps you avoid personal injury, damage to the phone, or property damage.

LOOK FOR UPDATES

From time to time, this guide is updated to reflect changes. The latest version may be available at the U.S. Mobile Phone products section of **www.nokia.com**.

Also, an interactive version of this guide may be available at **www.nokiahowto.com**.

3 Your phone



• MAKING A CALL

- 1 In standby mode, key in the phone number, including the area code. Press or to move the cursor. Press to remove a number.
- For international calls, press twice for the international prefix (the + character replaces the international access code) and then key in the country code, the area code without 0, and the phone number.
- 2 Press to call the number.
- 3 Press to end the call (or to cancel the call attempt).



Pressing will always end a call, even if another application is active and displayed. You can make a call using your voice so that you do not need to look at the display to key in the number. See "Voice dialing" on page 23.

Making a call using the Contacts directory

- 1 To open the Contacts directory, press in standby mode, or go to **Menu**→**Contacts**.
- 2 To find a contact, scroll to the desired name, or key in the first letters of the name. The Search field opens automatically and matching contacts are listed.
- 3 Press to start the call.
If the contact has more than one phone number, scroll to the number and press to start the call.

Calling your voice mailbox

The voice mailbox (network service) is an answering service where callers who are unable to reach you can leave you voice messages.

- To call your voice mailbox, press and in standby mode.

- If the phone asks for the voice mailbox number, key it in and press **OK**. You can obtain this number from your service provider.

See "Settings for call forwarding" on page 19.

Each phone line may have its own voice mailbox number. See "Line in use (network service)" on page 66.

CHANGING THE VOICE MAILBOX NUMBER

To change the phone number of your voice mailbox, go to **Menu**→**Tools**→**Voice mailbox** and select **Options**→**Change number**. Key in the number (obtained from your service provider) and press **OK**.

1-touch dialing a phone number

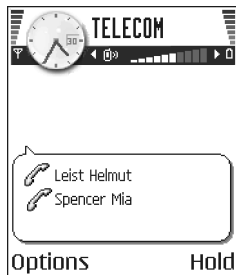
➡ To view the 1-touch dialing grid, go to **Menu**→**Tools**→**1-touch dial**.

- 1 Assign a phone number to one of the 1-touch dialing keys (**2 abc** - **WXYZ9**). See "Assigning 1-touch dialing keys" on page 25.
- 2 To call the number: In standby mode, press the corresponding 1-touch dialing key and **↵**. If the **1-touch dialing** function is set to **On**: Press and hold the corresponding 1-touch dialing key until the call is started.

Making a conference call

Conference calling is a network service that allows you to make a conference call with a maximum of six participants, including yourself.

- 1 Make a call to the first participant.
- 2 To make a call to a new participant, select **Options**→**New call**. Key in or search the memory for the phone number of the participant and press **OK**. The first call is automatically put on hold.
- 3 When the new call has been answered, join the first participant in the conference call. Select **Options**→**Conference**.
- 4 To add a new person to the call, repeat step 2 and then select **Options**→**Conference**→**Add to conference**.



- To have a private conversation with one of the participants: Select **Options**→**Conference**→**Private**. Scroll to the desired participant and press **Private**. The conference call is put on hold in your phone, and the other participants can still continue talking with each other while you have a private discussion with one participant only. Once you have finished the private conversation, press **Cancel** to return to the conference call.
 - To drop one participant from the conference call, select **Options**→**Conference**→**Drop participant**, then scroll to the participant and press **Drop**.
- 5 To end the active conference call, press **End**.

ANSWERING A CALL

- To answer an incoming call, press **Answer**.
- To end the call, press **End**.

If you do not want to answer a call, press **Ignore**.
The caller will hear a 'line busy' tone.

When a call comes in, press **Silence** to quickly mute the ringing tone.

Options during a call

Press **Options** during a call for some of the following options:

Mute or **Unmute**, **End active call**, **End all calls**, **Hold** or **Unhold**, **Handset**, **BT handsfree**, **New call**, **Conference**, **Private**, **Drop participant**, **Answer**, and **Decline**.

Swap is used to switch between the active call and the call on hold.

Transfer is used to connect an incoming call or a call on hold with an active call and to disconnect yourself from both calls.

Send touch tones is used to send touch tone sequences, for example, passwords or bank account numbers.

All options may not be available on your phone.

- Key in the digits with **0-9** - **Star**. Each keystroke generates a touch tone, which is transmitted while the call is active. Press **Star** repeatedly to produce: *****, **p** (inserts a pause of approximately two seconds before, or between touch tone characters.), and **w** (if you use this character, the remaining sequence is not sent until you press **Send** again during the call). Press **Star** to produce **#**.



Call waiting (network service)

If you have activated the Call waiting service, the network will notify you of a new incoming call while you have a call in progress.

- 1 During a call, press  to answer the waiting call. The first call is put on hold.
To switch between the two calls, press **Swap**.
- 2 To end the active call, press .

Settings for call forwarding

When this network service is activated, you can direct your incoming calls to another number, for example, to your voice mailbox number. For details, contact your service provider.

 Go to **Menu**→ **Tools**→ **Settings**→ **Call forwarding**.

- Select one of the forward options, for example, select **If busy** to forward voice calls when your number is busy or when you decline incoming calls.
- Select **Options**→ **Activate** to set the forward setting on, **Cancel** to set the forward setting off, or **Check status** to check whether the forward is activated or not.
- To cancel all active forwards, select **Options**→ **Cancel all forwards**.

See "Indicators related to actions" on page 9.

 **Note:** You cannot have restriction of incoming calls and call forwarding active at the same time. See "Call restriction (network service)" on page 74.

• LOG - CALL LOG AND GENERAL LOG

 Go to **Menu**→ **Log**.



In the log you can monitor phone calls, text messages, packet data connections, and fax and data calls registered by the phone. You can filter the log to view just one type of event and create new contact cards based on the log information.

Connections to your remote mailbox, multimedia messaging center, or browser pages are shown as data calls or packet data connections in the general communications log.

Recent calls log

 Press  in Standby mode or go to **Menu**→ **Log**→ **Recent calls**.

The phone registers the phone numbers of missed, received, and dialed calls, and the approximate duration of your calls. The phone registers missed and received calls only if the network supports these functions, and the phone is switched on and within the network's service area.

Options in the Missed, Received, Dialed views: [Call](#), [Create message](#), [Use number](#), [Delete](#), [Clear list](#), [Add to Contacts](#), [Help](#), and [Exit](#).

Missed calls and received calls

To view a list of the last 20 phone numbers from which somebody has tried to call you without success (network service), go to [Log](#)→ [Recent calls](#)→ [Missed calls](#).

 **Tip:** When you see a note in standby mode about missed calls, press [Show](#) to access the list of missed calls. To call back, scroll to the number or name you want and press [Call](#). If you do not view the missed calls then the  icon will be displayed, when you are not in standby mode, until the missed calls have been viewed.

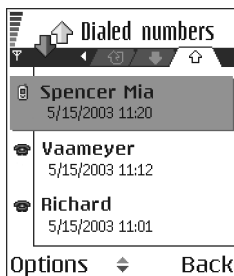
To view a list of the 20 numbers or names from which you have most recently accepted calls (network service), go to [Log](#)→ [Recent calls](#)→ [Received calls](#).

Dialed numbers

To view the 20 phone numbers that you have most recently called or attempted to call, go to [Log](#)→ [Recent calls](#)→ [Dialed nos.](#)

Erasing recent call lists

- To clear all recent call lists, select [Options](#)→ [Clear recent calls](#) in the Recent calls main view.
- To clear one of the call logs, open the log you want to erase and select [Options](#)→ [Clear list](#).
- To clear an individual event, open a log, scroll to the event, and press [Clear](#).



Call timers

 Go to [Menu](#)→ [Log](#)→ [Call timers](#).

Allows you to view the duration of your incoming and outgoing calls.

 **Note:** The actual time invoiced for calls by your service provider may vary, depending upon network features, rounding-off for billing, and so forth.

Erasing call timers - Select [Options](#)→ [Clear timers](#). For this you need the lock code. See "Security" on page 71.

GPRS data counter

➡ Go to **Log**→ *GPRS counter*.

The GPRS data counter allows you to check the amount of data sent and received during packet data (GPRS) connections. For example, you may be charged for your GPRS connections by the amount of data sent and received.

Viewing the general log

➡ Go to **Menu**→ **Log** and press .

In the general log, for each communication event, you can see the sender or recipient name, phone number, name of the service provider, or access point.

Sub-events, such as a text message sent in more than one part and packet data connections, are logged as one communication event.

Filtering the log

- 1 Select **Options**→ *Filter*. A list of filters opens.
- 2 Scroll to a filter and press **Select**.

Erasing the contents of the log

- To erase all the log contents, Recent calls log, and Messaging delivery reports permanently, select **Options**→ *Clear log*. Confirm by pressing **Yes**.

Packet data counter and connection timer

- To view how much data, measured in kilobytes, has been transferred and how long a certain GPRS connection has lasted, scroll to an Incoming or Outgoing event with the access point icon  and select **Options**→ *View details*.

Log settings

- Select **Options**→ *Settings*. The list of settings opens.
 - Log duration* - The log events remain in the phone memory for a set number of days after which they are automatically erased to free memory.



Note: If you select *No log*, all the log contents, Recent calls log, and Messaging delivery reports are permanently deleted.

- Show call duration*. See "Call timers" on page 20.



4 Personal information

• CONTACTS

➡ To open Contacts, press  in standby mode or go to **Menu**→ **Contacts**.



In Contacts, you can store and manage contact information, such as names, phone numbers, and addresses.

You can also add a personal ringing tone, voice tag, or a thumbnail image to a contact card. You can create contact groups, which allow you to send text messages or e-mail to many recipients at the same time.

Options in the Contacts directory: *Open, Call, Create message, New contact, Edit, Delete, Duplicate, Add to group, Belongs to groups, Mark/Unmark, Copy to SIM direct, Go to web address, Send, Contacts info, SIM directory, Service numbers, Settings, Help, and Exit.*



Creating contact cards

- 1 Open Contacts and select **Options**→ **New contact**. An empty contact card opens.
- 2 Fill in the fields you want and press **Done**. The contact card is saved in the phone memory and closed, after which you can see it in the Contacts directory.

Copying contacts between the SIM card and phone memory

- To copy names and numbers from a SIM card to your phone, select **Options**→ **SIM directory**, scroll to the name(s) you want to copy and select **Options**→ **Copy to Contacts**.
- If you want to copy a phone, fax, or pager number from Contacts to your SIM card, go to Contacts, open a contact card, scroll to the number, and select **Options**→ **Copy to SIM direct**.

Editing contact cards

Options when editing a contact card: *Add thumbnail | Remove thumbnail, Add detail, Delete detail, Edit label, Help, and Exit.*

See "Actions common to all applications" on page 11.

INSERTING AN IMAGE IN A CONTACT CARD

To attach a small thumbnail image to a contact card, open a contact card, select **Options**→*Edit* and then select **Options**→*Add thumbnail*. The thumbnail image is also shown when the contact is calling you. After you attach a thumbnail image to a contact card, you can select *Add thumbnail* to replace the image with a different thumbnail or *Remove thumbnail* to remove the thumbnail from the contact card.

Viewing a contact card

The contact information view () shows all information inserted in the contact card.

The name field is always displayed in the contact information view, but other fields are only displayed if they contain information.

 Options when viewing a contact card, when the selection is on a phone number: *Call*, *Create message*, *Edit*, *Delete*, *Defaults*, *Add voice tag* / *Voice tags*, *Assign 1-touch no.* / *Remove 1-touch no.*, *Ringing tone*, *Copy to SIM direct.*, *Send*, *Help*, and *Exit*.



ASSIGNING DEFAULT NUMBERS AND ADDRESSES

If a contact has several phone numbers or e-mail addresses, to speed up calling and sending messages, you can define certain numbers and addresses to be used as the default.

- Open a contact card and select **Options**→*Defaults*. A pop-up window opens, listing the different options.



Example: Scroll to *Phone number* and press **Assign**. A list of phone numbers in the selected contact card is shown. Scroll to the one you want to have as the default and press . When you return back to the contact card view, you can see the default number's name underlined.

VOICE DIALING

You can make a phone call by saying a voice tag that has been added to a contact card.

Voice tags

Any spoken word(s) can be a voice tag.

- When recording, hold the phone at a short distance away from your mouth. After the starting tone, say clearly the word, or words, you want to record as a voice tag.

Before using voice dialing, note that:

- Voice tags are not language dependent. They are dependent on the speaker's voice.
- Voice tags are sensitive to background noise. Record and use them in a quiet environment.
- Very short names are not accepted. Use long names and avoid similar names for different numbers.



Note: You must say the name exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice dialing in all circumstances.

Adding a voice tag to a phone number

Voice tags can only be added to phone numbers stored in the phone's memory. See "Copying contacts between the SIM card and phone memory" on page 22.

- 1 In the Contacts main view, scroll to the contact that you want to add a voice tag to, and press to open the contact card.
- 2 Scroll to the number that you want to add the voice tag to, and select **Options** → *Add voice tag*.
- 3 The text *Press Start', then speak after tone* is displayed.
 - Press **Start** to record a voice tag. The phone sounds a starting tone and the note *Speak now* is displayed.
- 4 Say the voice tag. The phone will stop recording after approximately 5 seconds.
- 5 After recording, the phone plays the recorded tag and the note *Playing voice tag* is displayed.
- 6 When the voice tag has been successfully saved, the note *Voice tag saved* is displayed and a beep sounds. A symbol can be seen next to the number in the contact card.

Making a call using a voice tag

- 1 In standby mode, press and hold . A short tone is played and the note *Speak now* is displayed.
- 2 When you are making a call by saying a voice tag, hold the phone at a short distance away from your mouth and face and say the voice tag clearly.
- 3 The phone plays the original voice tag, displays the name and number, and after a few seconds dials the number of the recognized voice tag.
 - If the phone plays the wrong voice tag, or to retry voice dialing, press **Retry**.

When an application using a data call or GPRS connection is sending or receiving data, you cannot make a call by using voice dialing. To make a call by using a voice tag, end all active data connections.

Replaying, erasing, or changing a voice tag

To replay, erase, or change a voice tag, scroll to the item that has a voice tag (indicated by ) , select **Options**→ *Voice tag*, and then either:

- *Playback* - to listen to the voice tag again, or
- *Delete* - to erase the voice tag, or
- *Change* - to record a new voice tag. Press **Start** to record.

ASSIGNING 1-TOUCH DIALING KEYS

1-touch dialing is a quick way to call frequently used numbers. You can assign 1-touch dialing keys to eight phone numbers. Number 1 is reserved for the voice mailbox.

- 1 Open the contact card for which you want a 1-touch dialing key and select **Options**→ *Assign 1-touch no.* The 1-touch dialing grid opens, showing you the numbers from 1-9.
 - 2 Scroll to a number and press **Assign**. When you return to the contact information view, you can see the 1-touch dial icon next to the number.
- To call the contact by 1-touch dialing, go to standby mode and press the 1-touch dialing key and .



ADDING A RINGING TONE FOR A CONTACT CARD OR GROUP

You can set a ringing tone for each contact card and group. When that contact or group member calls you, the phone plays the chosen ringing tone (if the caller's telephone number is sent with the call and your phone recognizes it).

- 1 Press  to open a contact card or go to the Groups list and select a contact group.
 - 2 Select **Options**→ *Ringing tone*. A list of ringing tones opens.
 - 3 Use the joystick to select the ringing tone you wish to use for the contact or group and press **Select**.
- To remove the ringing tone, select *Default tone* from the list of ringing tones.

For an individual contact, the phone will always use the ringing tone that was assigned last. So, if you first change a group ringing tone and then the ringing tone of a single contact that belongs to that group, the ringing tone of the single contact will be used when the contact calls you the next time.

Managing contact groups

You can create contact groups, which can, for example, be used as distribution lists for sending text messages and e-mail. A ringing tone may be added to a group. See "Adding a ringing tone for a contact card or group" on page 25.

Options in the Groups list view: *Open*, *New group*, *Delete*, *Rename*, *Ringing tone*, *Contacts info*, *Settings*, *Help*, and *Exit*.

CREATING CONTACT GROUPS

- 1 In the Contacts directory, press  to open the Groups list.
- 2 Select *Options* → *New group*.
- 3 Write a name for the group or use the default name *Group 1* and press *OK*.

ADDING MEMBERS TO A GROUP

- 1 In the Contacts directory, scroll to the contact you want to add to a group and select *Options* → *Add to group*. A list of available groups opens.
- 2 Scroll to the group to which you want to add the contact and press .



• CALENDAR

 Go to *Menu* → *Calendar*

In Calendar, you can keep track of your appointments, meetings, birthdays, anniversaries, and other events. You can also set a calendar alarm to remind you of upcoming events. Calendar uses shared memory. See "Shared memory" on page 3.



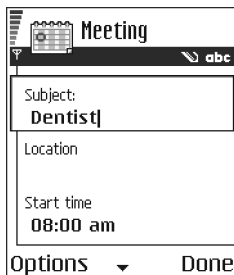
Creating calendar entries

- 1 Select *Options* → *New entry* and select:
 - *Meeting* to remind you of an appointment that has a specific date and time.
 - *Memo* to write a general entry for a day.
 - *Anniversary* to remind you of birthdays or special dates. Anniversary entries are repeated every year.
- 2 Fill in the fields. See "Calendar entry fields" on page 27. Use the joystick to move between fields. Press  to change between upper and lower case, and predictive text.
- 3 To save the entry, press *Done*.

EDITING CALENDAR ENTRIES

Options when editing a calendar entry:
Delete, *Send*, *Help*, and *Exit*.

- 1 In the Day view, scroll to the entry and press  to open it.
- 2 Edit the entry fields and press **Done**.
 - If you are editing a repeated entry, choose how you want the changes to take effect: *All occurrences* - all repeated entries are changed / *This entry only* - only the current entry will be changed.



DELETING CALENDAR ENTRIES

- In the Day view, scroll to the entry you want to delete and select **Options** → *Delete* or press . Press **Yes** to confirm.
- If you are deleting a repeated entry, choose how you want the change to take effect: *All occurrences* - all repeated entries are deleted / *This entry only* - only the current entry will be deleted.

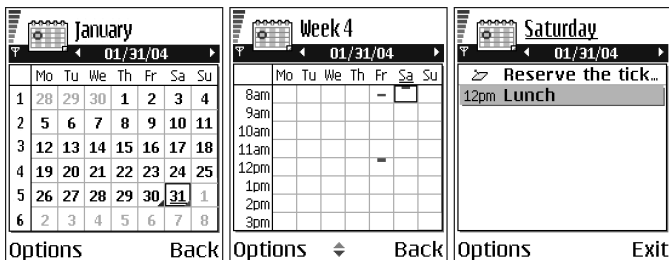
CALENDAR ENTRY FIELDS

- *Subject* / *Occasion* - Write a description of the event.
- *Location* - the place of a meeting, optional.
- *Start time*, *End time*, *Start date*, and *End date*.
- *Alarm* - Press  to activate the fields for *Alarm time* and *Alarm date*.
- *Repeat* - Press  to change the entry to be repeating. Shown with  in the Day view.
- *Repeat until* - You can set an ending date for the repeated entry, for example, the ending date of a weekly course you are taking. This option is shown only if you have selected to repeat the event.
- *Synchronization* - If you select *Private*, after synchronization the calendar entry can be seen only by you and it will not be shown to others with online access to view the calendar. This is useful when, for example, you synchronize your calendar with a calendar on a compatible computer at work. If you select *Public*, the calendar entry is shown to others who have access to view your calendar online. If you select *None*, the calendar entry will not be copied when you synchronize your calendar.

CALENDAR VIEWS

Press  in the Month, Week, or Day views to automatically highlight today's date.

To write a calendar entry, press any digit key ( - ) in any calendar view. A Meeting entry is opened and the characters you keyed in are added to the *Subject* field.



Note: Synchronization icons in Month view:

 - *Private*,  - *Public*,  - *None*, and  - the day has more than one entry.

Note: Calendar entry icons in Day and Week views:

 - *Memo*, and  - *Anniversary*.

Month view

In the Month view, one row equals one week. Today's date is underlined. Dates that have calendar entries are marked with a small triangle at the bottom right corner. There is a frame around the currently selected date.

- To open the Day view, scroll to the date you want to open and press .
- To go to a certain date, select **Options** → *Go to date*. Write the date and press **OK**.

Week view

In the Week view, the calendar entries for the selected week are shown in seven day boxes. Today's day of the week is underlined. Memos and Anniversaries icons are placed before 8 o'clock. Meeting entries are marked with colored bars according to starting and ending times.

- To view or edit an entry, scroll to the cell that has an entry and press  to open the Day view, then scroll to the entry and press  to open it.

 Options in the different calendar views: *Open*, *New entry*, *Week view* / *Month view*, *Delete*, *Go to date*, *Send*, *Settings*, *Help*, and *Exit*.

Day view

In the Day view, you can see the calendar entries for the selected day. The entries are grouped according to their starting time. Memos and Anniversaries are placed before 8 o'clock.

- To open an entry for editing, scroll to it and press .
- Press  to go to the next day or press  to go to the previous day.

Settings for calendar views

Select **Options**→**Settings** and select:

- **Calendar alarm tone** - To select a personalized alarm tone, or no tone at all.
- **Default view** - To select the view that is shown first when you open Calendar.
- **Week starts on** - To change the starting day of the week.
- **Week view title** - To change the title of the Week view to be the week number or the week dates.

Setting calendar alarms

- 1 Create a new Meeting or Anniversary entry, or open a previously created entry.
- 2 Scroll to **Alarm** and press , then select **On** to open the **Alarm time** and **Alarm date** fields.
- 3 Set the alarm time and date.
- 4 Press **Done**. An alarm indicator  is shown next to the entry in the Day view.

STOPPING A CALENDAR ALARM

The alarm duration is one minute. To stop the alarm, press **Stop**. If you press any other key, the alarm is set to snooze.

• TO-DO

 Go to **Menu**→**To-do**.

In To-do you can keep a list of tasks that you need to do. The To-do list uses shared memory. See "Shared memory" on page 3.

- 1 Start to write a note using the digit keys ( - ). See "Writing text" on page 43. The editor opens and the cursor blinks after the letters you have keyed in.



To-do list	
☐ 02/06	Call Maria a... !
☐ 02/06	Air tickets
☐ 03/06	Dentist
☐ 03/06	Present for... !
☐ 03/06	Buy milk and j...
☐ 05/06	Meet Margo... !
Options ▾ Exit	

- 2 Write the task in the *Subject* field. Press  to add special characters.
 - To set the due date for the task, scroll to the *Due date* field and key in a date.
 - To set a priority for the to-do note, scroll to the *Priority* field and press .
- 3 To save the to-do note, press **Done**. If you remove all characters and press **Done**, the note will be deleted, even if you edit a previously saved note.
 - **To open a to-do note**, scroll to it and press .
 - **To delete a to-do note**, scroll to it and select **Options**→ *Delete* or press .
 - **To mark a to-do note as completed**, scroll to it and select **Options**→ *Mark as done*.
 - **To restore a to-do note**, select **Options**→ *Mark as not done*.

• IMPORTING DATA FROM COMPATIBLE NOKIA PHONES

You can move calendar, contacts, and to-do data from compatible Nokia phones to your phone using the PC Suite Data Import application. Instructions for using the application can be found in the help function of PC Suite on the CD-ROM.

5 Multimedia

• CAMERA

➡ Press **Camera** in standby mode or go to **Menu**→ **Camera**.

With the Camera application you can take pictures of people or events while on the move. The images are automatically saved in the Gallery application, where you can rename them and organize them in folders. You can also send images in a multimedia message, as an e-mail attachment, or via a Bluetooth or infrared connection. The camera produces JPEG images.

Taking pictures

Options before taking a picture: *Capture*, *Go to Gallery*, *Self-timer*, *Settings*, *Help*, and *Exit*.

- 1 Press **Camera** in standby mode. The camera opens and you can see the view to be captured.

You can see the viewfinder and the cropping lines, which show you the image area to be captured. You can also see the image counter, which shows you how many images, depending on the selected picture quality, fit in the memory of your phone or memory card, if you use one.

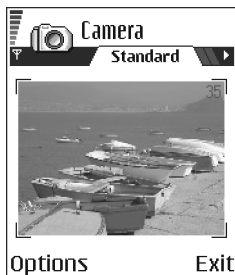
- 2 Press  to zoom in on your subject before taking the picture. Press  to zoom out again. The zoom indicator on the display shows the zoom level.

- 3 To take a picture, press . Do not move the phone before the camera starts to save the image. The image is saved automatically in the Gallery. See "Gallery" on page 38.

The resolution of a digitally zoomed picture is lower than that of a non-zoomed picture, but the image remains the same size. You may notice the difference in image quality if viewed on a PC, for example.

Camera goes into battery saving mode if there have been no key presses within a minute. To continue taking pictures, press .

Options after a picture has been taken: *New image*, *Delete*, *Send*, *Rename image*, *Go to Gallery*, *Settings*, *Help*, and *Exit*.



After the image has been saved:

- If you do not want to save the image, select **Options**→ *Delete*.
- To return to the viewfinder to take a new picture, press .

You can insert an image into a contact card. See "Inserting an image in a contact card" on page 23.

SELF-TIMER

Use the self-timer to delay the taking of a picture, so that you can include yourself in the picture.

- 1 Select **Options**→ *Self-timer*.
- 2 Select the delay *10 seconds*, *20 seconds*, or *30 seconds*.
- 3 Press *Activate*. The camera will take the picture after the selected delay has elapsed.

SETTINGS

In the camera settings, you can adjust the image quality setting, change the default image name, and change the memory location of saved images.

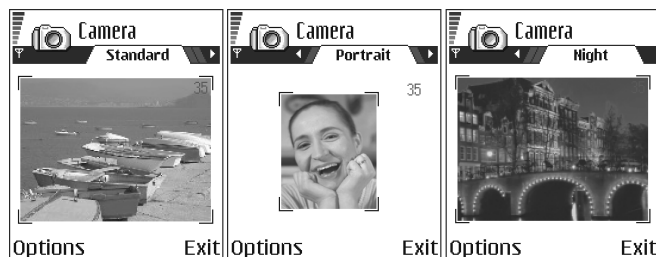
- 1 Select **Options**→ *Settings*.
- 2 Scroll to the setting you want to change:
- 3 *Image quality* - *High*, *Normal*, and *Basic*. The better the image quality, the more memory the image consumes. See "Images and memory consumption" on page 33.
- 4 *Default image name* - By default, camera names images in the format 'Image.jpg'. *Default image name* allows you to set a name for the images stored.
 - *Memory in use* - Select whether you want to store your images in the phone memory or on the memory card, if you use one.

CAMERA MODE AFFECTS IMAGE SIZE AND ORIENTATION

With the different camera modes, you can affect the size and orientation of the picture to be taken. When you are taking a picture, press  or  to change between the different modes. Choose:

- *Standard* when you want to take normal landscape pictures,
- *Portrait* when you want to take a smaller icon-sized, vertical picture, which can be added to a contact card, or

- **Night** when the lighting is dim and the camera needs a longer exposure time for the picture to be of good quality. Note that, in dim conditions, any movement while taking a picture may cause it to get blurred. The image size and orientation is the same for **Standard** and **Night**.



- When you are taking a picture in Standard or Night mode, the viewfinder resolution is 160x120 pixels, and in Portrait mode, 80x96.
- The pictures taken in Standard or Night mode are saved in 640x480 pixel (VGA) format and those taken in Portrait mode are saved in 80x96 pixel format.
- When you are viewing images, they are scaled to fit the display, which has 176x208 pixels. This means that Standard and Night mode pictures will appear more detailed when viewed on a higher resolution screen, for example, a computer or when zoomed in Images.

IMAGES AND MEMORY CONSUMPTION

Your phone has approximately 6 MB (megabytes) of free memory for images, contact information, calendar, messages, and so on. See "Shared memory" on page 3. Portrait pictures (always taken in High quality) are so small that they take up very little memory. Pictures taken using the High quality setting and those taken in Night mode take up the most memory.

If 1 MB of memory is used for images only, it would fit approximately 22 Normal quality pictures taken in Standard mode. In the table below, you can see approximately how many images would fit in 1 MB of memory.

	Image quality		
Picture type	Basic	Normal	High
Standard	55	22	15
Night	50	25	18
Portrait	-	-	>300

• VIEWING IMAGES

Pictures taken with the camera are stored as images in the Gallery. See "Gallery" on page 38.

Select an image from the list of images in the *Images* folder in the Gallery to start the image viewer and display the image.

When viewing an image, pressing  or  takes you to the next or previous image in the current folder.

Options when viewing an image: *Send, Set as wallpaper, Rotate, Zoom in, Zoom out, Full screen, Delete, Rename, View details, Add to 'Go to', Help, and Exit.*

In the images thumbnail view:

- 1 Press  or  to move between the phone and memory card.
- 2 To browse the list of images, press  and .
- 3 Press  to open an image. When the image is open, you can see the name of the image.

You can view animated GIF files in the same way as other images.

Zooming on a saved image

- 1 Select **Options**→ *Zoom in* or *Zoom out*. You can see the zooming ratio at the top of the display. See "Keyboard shortcuts" on page 35.
- 2 Press  to return to the initial view. The zooming ratio is not stored permanently.

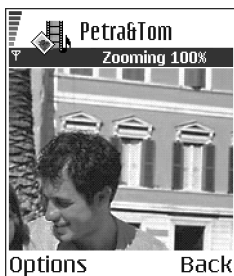
If you zoom in on GIF animations while they are playing, the animation will freeze until normal zoom is resumed, when play will continue.

Full screen

When you select **Options**→ *Full screen*, the panes around the image are removed so that you can see more of the image. Press  to return to the initial view.

Moving the focus

When you are zooming an image, or viewing an image in full screen mode, use the joystick to move the focus to the left, right, up, or down, so that you can take a closer look at one part of the image, for example, its upper right corner.



Keyboard shortcuts

- Rotate 90 degrees: - counterclockwise, - clockwise. The rotation status is not stored permanently.
- - zoom in, - zoom out, press and hold to return to the normal view.
- - change between full screen and normal view.

• VIDEO RECORDER

➡ Go to [Menu](#)→ [Video recorder](#).



With the Video recorder you can record video clips, on your phone or on a memory card, if you use one. You can also send video clips that you have recorded.

Video recorder uses shared memory. See "Shared memory" on page 3.

Options in the Video recorder main view: [Record](#), [Go to Gallery](#), [Settings](#), [About product](#), [Help](#), and [Exit](#).

Recording a video clip

You can record video clips up to 95 kB in size, which relates to approximately 10 seconds in duration, so that it can be conveniently sent as a multimedia message. Video clips are recorded in the 3GPP file format with the .3gp file extension.

- Open the Video recorder and press to start recording.
- To pause recording at any time, press . Press again, to resume recording.
- Press to zoom in on your subject before, or during, recording. Press to zoom out again.

The video clip is saved to either the phone's memory or the memory card, depending on the setting of your [Memory in use](#). See "Setting up your Video recorder" on page 36.

- To immediately play the video clip you just recorded, select [Options](#)→ [Play](#).
- To play previously saved video clips, go to the Gallery. See "Gallery" on page 38.

Options in Video recorder when you have recorded a clip: [Play](#), [New video clip](#), [Send](#), [Rename](#), [Delete](#), [Go to Gallery](#), [Settings](#), [About product](#), [Help](#), and [Exit](#).



Setting up your Video recorder

Use the following settings to define how videos are recorded.

- Select **Options**→ *Settings* and choose:
- *Image size* - Select *Small* or *Large*. *Large* reduces frame rate.
- *Audio* - Select *On* or *Off*. *On* reduces the maximum recording duration.
- *Default video name* - Define a default name.
- *Memory in use* - Select *Phone memory* or *Memory card*.

• REALONE PLAYER™

➡ Go to **Menu**→ **RealOne Player**.



With RealOne Player™, you can play local media files stored in the phone memory, or memory card, or stream media files over the air from a streaming link. The streaming link can be activated during a browsing session or stored in the phone memory, or memory card.

Media files are video, music or audio clips. Files with extensions .3gp, .amr, .mp4, .rm, and .ram are supported by RealOne Player.

RealOne Player does not necessarily support all file formats or all the variations of a file formats.

RealOne Player uses shared memory. See "Shared memory" on page 3.

▶ Options when you start RealOne Player: *Open*, *Video downloads*, *Settings*, *About product*, *Help*, and *Exit*.

Playing media files

- To play a media file stored in your phone's memory or memory card, select **Options**→ *Open* and:
- *Most recent clips* - to play one of the last 6 files played in RealOne Player, or
- *Saved clip* - to play a file saved in the Gallery. See "Gallery" on page 38.



Scroll to a file and press  to play the file.

- To stream content over the air:
- Select a streaming link saved in the Gallery. Before your live content begins streaming, your phone will connect to the site and load the file.
- Open the link to a file in the browser.

To stream live content, you must first configure your default access point. See "Access points" on page 68.

Many service providers will require you to use an Internet access point (IAP) for your default access point. Other service providers allow you to use a WAP access point. Contact your service provider for more information.

In RealOne Player, you can only open an rtsp:// URL address. You cannot open an http:// URL address, however RealOne Player will recognize an http link to a .ram file since a .ram file is a text file containing an rtsp link.

- Press  to pause the clip, or press  to stop the clip playing.

 Options in RealOne Player when a clip has been paused or stopped: [Play](#) / [Continue](#), [Stop](#), [Mute](#) / [Unmute](#), [Clip details](#), [Send](#), [Settings](#), [Help](#), and [Exit](#).

SHORTCUTS DURING PLAY

When a media file is playing use the joystick to seek (move quickly through the media file), and to mute the sound, as follows:

Press and hold  to seek forwards, or press and hold  to seek backwards through the media file.

Press and hold  until the  indicator is displayed to mute the sound.

Press and hold  until you see the  indicator to turn on the sound.

Changing the settings

Select [Options](#) → [Settings](#) then either [Video](#) or [Connection](#).

Press  or  to move between the different setting tabs for [Video](#) and [Connection](#).

Select [Video](#) to change the following list of settings:

- [Contrast](#) - Open the slider view to change the contrast.
- [Repeat](#) - Choose [On](#) to have the playing video or audio file restart automatically once it has finished.

Select [Connection](#) to change the connection settings.

• GALLERY

↩ Go to **Menu** → **Gallery**.

Use the Gallery to store and organize your images, sound clips, and video clips, streaming links and RAM files.

Gallery uses shared memory. See "Shared memory" on page 3.

Open the Gallery to see a list of the folders in the phone memory. Press  to see the folders on the memory card, if you use one.

Select a folder *Images*, *Sound clips*, or *Video clips* (or other folder that you have created) and press  to open it.



In the open folder you can see:

- an icon depicting the type of each file in the folder, or in the case of an image, a small thumbnail picture; a preview of the image,
- the name of the file,
- the date and time a file was saved, or the size of the file, and
- subfolders, if present.

 Options: *Open* (folder or item), *Send*, *Delete*, *Create new*, *Move to folder*, *Copy to folder*, *New folder*, *Mark/Unmark*, *Edit*, *Rename*, *Gallery downloads*, *Image uploader*, *Receive via infrared*, *View details*, *Add to 'Go to'*, *Settings*, *Help*, and *Exit*.

You can browse, open, and create folders, mark, copy and move items to folders. See "Actions common to all applications" on page 11.

Opening files

Select any file and press  to open it. Each file will open in its corresponding application as follows:

- Images – open in the Image viewer. See "Viewing images" on page 34.
- Sound clips – open and play in the Recorder application. See "Recorder" on page 89.
- Video clips, RAM files, and streaming links – open and play in the RealOne Player application. See "RealOne Player™" on page 36.
- Subfolders – open to display contents.

Other default folders

PICTURE MESSAGES FOLDER

Use this folder to store pictures sent to you in picture messages.

- Select the folder *Images*→ *Picture msgs.*

 Options in the Picture messages folder: *Open*, *Send*, *Delete*, *Mark/Unmark*, *Rename*, *View details*, *Help*, and *Exit*.

To save a picture that you have received in a picture message, go to *Messaging*→ *Inbox*, open the message, and select *Options*→ *Save picture*.

WALLPAPERS FOLDER

Use this folder to store pictures that you want to use as background images.

- Select the folder *Images*→ *Wallpapers*.

Downloading files

To download files into the Gallery using the browser:

- Select *Options*→ *Gallery downloads* and choose from *Graphic downloads*, *Video downloads*, or *Tone downloads*. The browser opens and you can choose a bookmark for the site to download from. See "Viewing bookmarks" on page 92.

To download files, you must first configure your default access point. See "Access points" on page 68.

Once items have been downloaded, the browser closes and the phone returns to the Gallery view.

Many service providers will require you to use an Internet access point (IAP) for your default access point. Other service providers allow you to use a WAP access point. Contact your service provider for more information.

Uploading images to an image server (network service)

You can send your pictures to an image server to allow others to share your pictures online.

You can only upload .JPG files to an image server.

Before you can upload images, you must enter the settings for the image server. See "Set up the image server" on page 40. You can get these settings from your service provider.

- 1 Select **Options** → *Image uploader*.
- 2 To begin an upload, mark the images, or the entire folder that you want to upload, and select *Upload*.
- 3 Enter a name for the folder on the image server that the images will be stored in and press .

SET UP THE IMAGE SERVER

- 1 Select **Settings** → *Image servers* and press . Fill in the details for each field. See "Access points" on page 68.
- 2 Press .

6 Messaging



➡ Go to **Menu**→ **Messaging**.

In Messaging you can create, send, receive, view, edit, and organize:

- text messages,
- multimedia messages,
- e-mail messages, and
- configuration messages.

Text messages and multimedia messages use shared memory. See “Shared memory” on page 3.

You can also receive messages and data via an infrared or Bluetooth connection, receive service messages, cell broadcast messages, and send service commands.

Options in the Messaging main view: **Create message**, **Connect** (shown if you have defined settings for the mailbox), or **Disconnect** (shown if there is an active connection to the mailbox), **SIM messages**, **Cell broadcast**, **Service command**, **Settings**, **Help**, and **Exit**.

When you open Messaging, you can see the **New message** function and a list of default folders:

 **Inbox** - contains received messages except e-mail and cell broadcast messages. E-mail messages are stored in the **Mailbox**. You can read cell broadcast messages by selecting **Options**→ **Cell broadcast**.

 **My folders** - for organizing your messages into folders.

 **Mailbox** - When you open this folder, you can either connect to your remote mailbox to retrieve your new e-mail messages or view your previously retrieved e-mail messages offline. See “Viewing e-mail messages when online” on page 54. After you have defined settings for a new mailbox, the name given to that mailbox will replace **Mailbox** in the main view. See “Settings for e-mail” on page 61.

 **Drafts** - stores draft messages that have not been sent.

 **Sent** - stores the last 15 messages that have been sent. You can change the number of messages to be saved. See “Settings for the other folder” on page 63.

 **Note:** Messages or data that have been sent via an infrared or Bluetooth connection are not saved in the Draft or Sent folders.

 **Outbox** - is a temporary storage place for messages waiting to be sent.



Reports– you can request the network to send you a delivery report of the text messages, configuration messages, and multimedia messages you have sent. To turn on delivery report reception, select **Options**→ **Settings**→ **Text message** or **Multimedia message**, scroll to **Receive report**, and select **Yes**.

Receiving a delivery report of a multimedia message that has been sent to an e-mail address might not be possible.

Before you create a multimedia message, write an e-mail, or connect to your remote mailbox, you must have the correct connection settings in place. See "Settings for e-mail" on page 61. See "Settings needed for multimedia messaging" on page 48.

• MESSAGING – GENERAL INFORMATION

The message status is always either draft, sent, or received. Messages can be saved to the Drafts folder before they are sent. Messages are temporarily placed in the Outbox to wait for sending. After a message has been sent, you can find a copy of the message in the Sent folder. Received and sent messages are in read-only state until you select **Reply** or **Forward**, which copies the message to an editor. Note that you cannot forward e-mail messages you yourself have sent, and that restrictions may apply to forwarding received messages.

Opening a received message

- When you receive a message,  and the note **1 new message** is shown in standby mode, press **Show** to open the message.
- If you have more than one new message, press **Show** to open the Inbox to see the message headings. To open a message in Inbox, scroll to it and press .

Adding a recipient to a message

When you create a message, there are several ways to add a recipient:

- add recipients from the Contacts directory. To open the Contacts directory, press  or  in the **To:** or **Cc:** fields, or select **Options**→ **Add recipient**. Scroll to a contact and press  to mark it. You can mark several recipients at a time. Press **OK** to return to the message. The recipients are listed in the **To:** field and automatically separated with a semicolon (;).
- start to key in a name in the **To:** field and select **Options**→ **Check contacts**. The phone will retrieve all matching entries from the Contacts directory. If only one entry is found, it is added automatically. If more than one entry is found, select a contact from the list.
- write the phone number or e-mail address of the recipient in the **To:** field, or
- copy the recipient information from another application and then paste it to the **To:** field. See "Copying text" on page 45.

Press  to delete a recipient to the left of the cursor.

If you write many phone numbers or e-mail addresses in the **To:** field, you must remember to add a semicolon (;) between each item to separate them from each other. When you retrieve recipients from the Contacts directory, the semicolon is added automatically.

Sending options

To change how a message is sent, select **Options** → **Sending options** when you are editing a message. When you save the message, its sending settings are also saved.

• WRITING TEXT

You can key in text in two different ways, using the method traditionally used in mobile phones or another method called predictive text input.

To set predictive text input on or off, press  twice quickly when writing text.

Using traditional text input

The indicator  is shown on the top right of the display when you are writing text using traditional text input.

- Press a number key ( - ) repeatedly until the desired character appears. Note that there are more characters available for a number key than are printed on the key.
-  **Icons:**  and  indicate the selected case.  means that the first letter of the next word is written in upper case, and all other letters will automatically be written in lower case.  indicates number mode.
- To switch between upper and lower case, press .
- To insert a number in letter mode, press and hold the number key.
- To switch between letter and number mode, press and hold .
- If the next letter is located on the same key as the present one, wait until the cursor appears (or press  to end the time-out period), and then key in the letter.
- If you make a mistake, press  to remove a character. Press and hold  to clear more than one character.
- The most common punctuation marks are available under . Press  repeatedly to reach the desired punctuation mark.

Press  to open a list of special characters. Use the joystick to move through the list and press **Select** to select a character. To insert multiple special characters, press  to select, scroll to the next character, press  again. Continue until you have entered all characters, and press **Select** to return to the message.

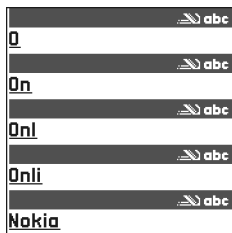
- To insert a space, press . To move the cursor to the next line, press three times.

Using predictive text input

To activate predictive text input, press and select *Predictive text on*. This will activate predictive text input for all editors in the phone. The indicator is shown at the top of the display.

- Write the desired word by pressing the keys - . Press each key only once for one letter. The word changes after every key press.

For example, to write 'Nokia' when the English dictionary is selected, press



for N, for o, for k, for i, and for a.

The word suggestion changes after each key press.

- When you have finished the word, check that it is correct.
 - If the word is correct, you can confirm it by pressing or by pressing to insert a space. The underlining disappears and you can begin to write a new word.
 - If the word is not correct, you have the following options:
 - Press repeatedly to view the matching words the dictionary has found one by one.
 - Press and select *Predictive text* → *Matches* to view a list of matching words. Scroll to the word you want to use and press to select it.
 - If the ? character is shown after the word, the word you intended to write is not in the dictionary. To add a word to the dictionary, press *Spell*, key in the word (max. 32 letters) using traditional text input, and press *OK*. The word is added to the dictionary. When the dictionary becomes full, a new word replaces the oldest added word.
 - To remove the ? and clear characters one by one from the word, press .

TIPS ON USING PREDICTIVE TEXT INPUT

- To erase a character, press . Press and hold to clear more than one character.
- To change between the different character cases *Abc*, *abc*, and *ABC*, press . Note that if you press twice quickly the predictive text input is turned off.

- To insert a number in letter mode, press and hold the desired number key, or press  and select number mode, key in the numbers you want, and press **OK**.
- The most common punctuation marks are available under . Press  repeatedly to reach the desired punctuation mark.

Press and hold  to open a list of special characters. Use the joystick to scroll through the list and press **Select** to select a character. Or press  and select **Insert symbol**. To insert multiple special characters, press  to select, scroll to the next character, press  again. Continue until you have entered all characters, and press **Select** to return to the message.

The predictive text input will try to guess which commonly used punctuation mark (.,?!') is needed. The order and availability of the punctuation marks depend on the language of the dictionary.

- Press  repeatedly to view the matching words the dictionary has found one by one.

When a word has been entered with predictive text on, you can press , select **Predictive text** and select:

- Matches** - to view a list of words that correspond to your key presses. Scroll to the desired word and press .
- Insert word** - to add a word (max. 32 letters) to the dictionary by using traditional text input. When the dictionary becomes full, a new word replaces the oldest added word.
- Edit word** - to open a view where you can edit the word, available only if the word is active (underlined).
- Off** - to turn off predictive text input for all editors in the phone.

WRITING COMPOUND WORDS

- Write the first half of a compound word and confirm it by pressing . Write the last part of the compound word and complete the compound word by pressing  to add a space.

Copying text

If you want to copy text to the clipboard, the following are the easiest methods:

- To select letters and words, press and hold . At the same time, press  or . As the selection moves, text is highlighted.
To select lines of text, press and hold . At the same time press  or .
- To end the selection, release pressing the joystick while still holding .

- 3 To copy the text to the clipboard, while still holding , press **Copy**.
Or, release  and then press it once to open a list of editing commands, for example, **Copy** or **Cut**.
If you want to remove the selected text from the document, press .
- 4 To insert the text into a document, press and hold  and press **Paste**.
Or, press  once and select **Paste**.

Editing options

When you press , the following options appear (depending on the editing mode and situation you are in):

- **Predictive text** / **Predictive text on** (predictive text input),
- **Alpha mode** / **Number mode** (traditional text input),
- **Cut**, **Copy** - available only if text has been selected first,
- **Paste** - available only when text has been either cut or copied to the clipboard,
- **Insert symbol**, and
- **Writing language**: - changes the input language for all editors in the phone.
See "Phone settings" on page 64.

• CREATING AND SENDING NEW MESSAGES



Note: When sending messages, your phone may indicate that the message is being sent. This actually shows that the message has been sent by your phone to the message center number programmed into your phone. This is not an indication that the message has been received at the intended destination. For more details about messaging services, check with your service provider.

You can start to create a message in two ways:

- By selecting **New message** → **Create** → **Text message**, **Multimedia message**, or **E-mail** in the Messaging main view, or
- Start to create a message from an application that has the option **Send**. In this case the file that was selected (such as an image or text) is added to the message.



Writing and sending text messages

Options in the text message editor: *Send, Add recipient, Insert, Delete, Check contacts, Message details, Sending options, Help, and Exit.*

- 1 Select *New message*. A list of message options opens.
- 2 Select *Create*→ *Text message*. The editor opens with the cursor in the *To:* field. Press  to select recipient(s) from the Contacts directory or write the phone number of the recipient.
Press  to add a semicolon (;) to separate each recipient. Press  to move to the message field.
- 3 Write the message. In the navigation bar, you can see the message length indicator counting backwards from 160. For example, 10 (2) means that you can still add 10 characters for the text to be sent as two messages.
- 4 To send the message, select *Options*→ *Send* or press .

 **Note:** Your phone supports the sending of multiple text messages at the same time, therefore, the normal 160 character limit for one text message can be exceeded. If your text exceeds 160 characters, it will be sent in two or more messages and message sending may cost you more.

CREATING AND SENDING PICTURE MESSAGES

Your phone allows you to send and receive picture messages. Picture messages are text messages that contain small black-and-white graphics. There are several default pictures available in the *Images*→ *Picture messages* folder in the Gallery.

 **Note:** This function can be used only if it is supported by your service provider. Only phones that offer picture message features can receive and display picture messages.

Options in the picture message editor: *Send, Add recipient, Insert, Remove picture, Delete, Check contacts, Message details, Help, and Exit.*



To send a picture message:

- 1 There are two possibilities, either:
 - Go to *Menu*→ *Gallery*→ *Images*→ *Picture messages* and select a picture to be sent. Select *Options*→ *Send*, or
 - Select *Messaging*→ *New message*→ *Create*→ *Text message* and select *Options*→ *Insert*→ *Picture*.

- 2 Enter recipient information and add text.
- 3 Select **Options**→ *Send* or press .



Note: Each picture message is made up of several text messages. Therefore, sending one picture message may cost more than sending one text message.

Multimedia messages

A multimedia message can contain a combination of text, images, video and sound clips.



Note: Multimedia messages can be used only if supported by your service provider. Only devices that offer multimedia messages or e-mail features can receive and display multimedia messages.

SETTINGS NEEDED FOR MULTIMEDIA MESSAGING

You may receive the settings as a configuration message from your service provider.

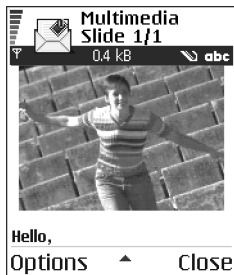
For availability of and subscription to data services, please contact your service provider.

- To manually set up an access point go to **Messaging**→ **Options**→ **Settings**→ *Multimedia message*. Open *Access point in use*. See "Settings for multimedia messages" on page 60.

CREATING MULTIMEDIA MESSAGES

 Options in the multimedia message editor: *Send*, *Add recipient*, *Insert*, *Remove*, *Move*, *Preview message*, *Objects*, *Delete*, *Check contacts*, *Message details*, *Sending options*, *Help*, and *Exit*.

- 1 In Messaging, select *New message*→ *Create*→ *Multimedia message* and press .
 - 2 Press  to select the recipient(s) from the Contacts directory or write the phone number or e-mail address of the recipient in the *To:* field. Add a semicolon (;) to separate each recipient. Press  to move to the next field.
 - 3 You can add the different objects of the multimedia message in any order you want.
First you need to select whether the objects are stored in the phone's memory or the memory card, if one is used.
- To add an image, select **Options**→ *Insert*→ *Image* or *New image*.





Note: The default setting is Image size: Small. When you are sending a multimedia message to an email address or another Nokia 6600 phone, if possible, use the larger image size (network dependent). To change the settings, select **Messaging**→**Options**→**Settings**→**Multimedia message**→**Image size**→**Large**

- To add a sound, select **Options**→**Insert**→**Sound clip** or **New sound clip**. When sound has been added, the  icon is shown in the navigation bar.
- If you select **Insert**→**Image**, **Sound clip**, or **Video clip**, a list of items opens. Scroll to the item you wish to add and press **Select**.
- If you select **Insert**→**New image**, camera opens and you can take a new picture. The picture is automatically saved in the Gallery. Press **Delete** to remove the picture and take another instead.
- If you select **Insert**→**New sound clip**, Recorder opens and you can record a new sound. The sound is automatically saved and a copy is inserted in the message.

4 To add a new slide, select **Options**→**Insert**→**Slide**.

5 To send the message, select **Options**→**Send** or press .



Important: Copyright protections may prevent some images, ringtones, and other content from being copied, modified, transferred or forwarded.

REMOVING AN OBJECT FROM A MULTIMEDIA MESSAGE

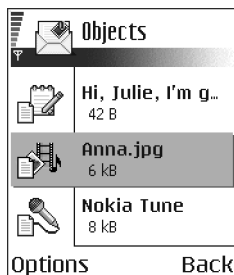
To remove a multimedia object, select **Options**→**Remove**→**Image**, **Sound clip**, or **Video clip**. Press  to remove text.

WORKING WITH DIFFERENT MEDIA OBJECTS

To see all the different media objects included in a multimedia message, open a multimedia message and select **Options**→**Objects**.

In the Objects view, you can change the order of the different objects, delete objects, or open an object in a corresponding application.

 Options in the Objects view: **Open**, **Place images first** | **Place text first**, **Remove**, **Help**, and **Exit**.



E-mail

SETTINGS NEEDED FOR E-MAIL

Before you can send, receive, retrieve, reply to, and forward e-mail to a separate e-mail account, you must:

- Configure an Internet access point (IAP) correctly. See "Connection settings" on page 66.
 - Define your e-mail settings correctly. See "Settings for e-mail" on page 61.
- Follow the instructions given by your remote mailbox and Internet service provider.

WRITING AND SENDING E-MAIL MESSAGES

 Options in the e-mail editor: *Send*, *Add recipient*, *Insert*, *Attachments*, *Delete*, *Check contacts*, *Message details*, *Sending options*, *Help*, and *Exit*.

- 1 Select *New message*→ *Create*:→ *E-mail*. The editor opens.
- 2 Press  to select the recipient(s) from the Contacts directory or write the e-mail address of the recipient in the *To*: field. Add a semicolon (;) to separate each recipient. If you want to send a copy of your e-mail to someone, write the address in the *Cc*: field. Press  to move to the next field.
- 3 Write the message. If you want to add an attachment to the e-mail, select *Options*→ *Insert*→ *Image*, *Sound clip*, *Video clip*, or *Note*.  will appear in the navigation bar to indicate that the e-mail has an attachment. *Template* adds pre-written text to the e-mail.

You can also add an attachment to an e-mail by selecting *Options*→ *Attachments* in an open e-mail. The Attachments view opens where you can add, view, and remove attachments.

When you add an attachment you need to select it from the phone's memory, or from the memory card, if one is used.

- 4 To remove an attachment, scroll to the attachment and select *Options*→ *Remove*.
- 5 To send the e-mail, select *Options*→ *Send* or press .

 **Note:** E-mail messages are automatically placed in Outbox before sending. In case something goes wrong while the phone is sending the e-mail, the e-mail is left in Outbox with the status *Failed*.

• INBOX – RECEIVING MESSAGES

Options in Inbox: *Open, Create message, Reply, Delete, Message details, Move to folder, Mark/Unmark, Help, and Exit.*



Messages and data can be received via text message, multimedia message, an infrared connection, or a Bluetooth connection. When there are unread messages in Inbox, the icon changes to *.

In Inbox, the message icons tell you what kind of a message it is. Here are some of the icons that you may see:

for an unread text message and for an unread configuration message,

for an unread multimedia message,

for an unread WAP service message,

for data received via infrared,

for data received via Bluetooth, and

for an unknown message type.

Options in different message viewers

The available options depend on the type of message you have opened for viewing:

- *Save picture* - saves the picture to the *Picture messages* folder in the Gallery.
- *Reply* - copies the address of the sender to the *To:* field. Select *Reply* → *To all* - to copy the address of the sender and *Cc:* field recipients to the new message.
- *Forward* - copies the message contents to an editor.
- *Call* - call by pressing .
- *Delete* - allows you to delete messages.
- *View image* - allows you to view and save the image.
- *Play sound clip* - allows you to listen to the sound in the message.
- *Play video clip* - allows you to play the video clip in the message.
- *Objects* - shows you a list of all the different multimedia objects in a multimedia message.
- *Attachments* - shows you a list of files sent as e-mail attachments.
- *Message details* - shows detailed information about a message.
- *Move to folder* / *Copy to folder* - allows you to move or copy message(s) to My folders, Inbox, or other folders you have created.

- **Add to Contacts** - allows you to copy the phone number or e-mail address of the message sender to the Contacts directory. Choose whether you want to create a new contact card or add the information to an existing contact card.
- **Find** - Searches the message for phone numbers, e-mail addresses, and Internet addresses. After the search, you can make a call or send a message to the found number or e-mail address, or save the data to Contacts or as a bookmark.

Viewing multimedia messages in Inbox

MULTIMEDIA MESSAGE OBJECTS

 Options in the Objects view: **Open**, **Save**, **Send**, **Call**, and **Exit**.

- To see what kinds of media objects have been included in the multimedia message, open the message and select **Options**→**Objects**. In the Objects view you can view, or play files that have been included in the multimedia message. You can choose to save the file in your phone or to send it, for example, via infrared to another device.

 **Important:** Multimedia message objects may contain viruses or otherwise be harmful to your phone or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender. See "Certif. management" on page 73.

Viewing a multimedia presentation

When you have received a multimedia message that includes a presentation, select **Options**→**Play presentation**, the presentation will open and start.

Receiving configuration messages

Your phone can receive many kinds of configuration messages, text messages that contain data (also called Over-The-Air (OTA) messages).

To open a received configuration message, open Inbox, scroll to the configuration message () , and press .

- **Picture message** - to save the picture in the **Picture messages** folder in the Gallery for later use, select **Options**→**Save picture**.
- **Business card** - to save the contact information, select **Options**→**Save business card**.

If certificates or sound files are attached to business cards, they will not be saved.

- **Ringtone** - to save the ringing tone to the Gallery, select **Options**→**Save**.
- **Operator logo** - to save the logo, select **Options**→**Save**. The operator logo can now be seen in standby mode instead of the service provider's own identification.

- **Calendar entry** - to save the invitation to Calendar, select **Options**→**Save to Calendar**.
- **Browser message** - to save the bookmark, select **Options**→**Save to bookmarks**. The bookmark is added to the Bookmarks list in browser services.

If the message contains both browser access point settings and bookmarks, to save the data select **Options**→**Save all**. Or, select **Options**→**View details** to view the bookmark and access point information separately. If you do not want to save all data, select a setting or bookmark, open the details, and select **Options**→**Save to Settings** or **Save to bookmarks** depending on what you are viewing.

- **E-mail notification** - Tells you how many new e-mails you have in your remote mailbox. An extended notification may list more detailed information such as subject, sender, attachments, and so on.
- In addition, you can receive a text message service number, voice mailbox number, profile settings for remote synchronization, access point settings for the browser, multimedia messaging or e-mail, access point login script settings, or e-mail settings.

To save the settings, select **Options**→**Save to SMS sett.**, **Save to Voice mail**, **Save to Settings**, or **Save to e-mail sett.**

Service messages (network service)

You can order service messages (pushed messages) from service providers. Service messages can be notifications of, for example, news headlines and they may contain a text message or address of a browser service. For availability and subscription, contact your service provider.

VIEWING SERVICE MESSAGES IN INBOX

 Options when viewing a service message: **Download message**, **Move to folder**, **Message details**, **Help**, and **Exit**.

- 1 In Inbox, scroll to a service message  and press .
- 2 To download or view the service, press **Download message**. The phone starts to make a data connection, if needed.
- 3 Press **Back** to return to Inbox.

VIEWING SERVICE MESSAGES IN THE BROWSER

When you are browsing, select **Options**→**Read service mgs.** to download and view new service messages.

• MY FOLDERS

In My folders you can organize your messages into folders, create new folders, and rename and delete folders.



Templates folder

- You can use text templates to avoid rewriting messages that you send often. To create a new template, select **Options**→ **New template**.

• REMOTE MAILBOX (NETWORK SERVICE)

When you open this folder, you can either connect to your remote mailbox to:



- retrieve new e-mail headings or messages, or
- view your previously retrieved e-mail headings or messages offline.

If you select **New message**→ **Create**→ **E-mail** or **Mailbox** in the Messaging main view and you have not set up your e-mail account, you will be prompted to do so. See "Settings needed for e-mail" on page 50.

When you create a new mailbox, the name you give to the mailbox automatically replaces **Mailbox** in the Messaging main view. You can have several mailboxes (max. six).

The Settings wizard program included in PC Suite for this phone can help you configure access point and mailbox settings. You can also copy existing settings, for example, from your computer to your phone. See the CD-ROM supplied in the sales package.

Opening the mailbox

When you open the mailbox, you can choose whether you want to view the previously retrieved e-mail messages and e-mail headings offline or connect to the e-mail server.

- When you scroll to your mailbox and press , the phone asks you if you want to **Connect to mailbox?** Select **Yes** to connect to your mailbox or **No** to view previously retrieved e-mail messages offline.
- Another way to start a connection is to select **Options**→ **Connect**.

VIEWING E-MAIL MESSAGES WHEN ONLINE

When you are online, you are continuously connected to a remote mailbox via a data call or a packet data connection. See "Data connection indicators" on page 9, "GSM data calls" on page 67, and "Packet data (General Packet Radio Service, GPRS)" on page 67.



Note: If you are using the POP3 protocol, e-mail messages are not updated automatically in online mode. To see the newest e-mail messages, you need to disconnect and then make a new connection to your mailbox.

VIEWING E-MAIL MESSAGES WHEN OFFLINE

When you view e-mail messages offline, your phone is not connected to the remote mailbox. This mode may help you to save on connection costs. See **"GSM data calls"** on page 67.

To view e-mail messages offline, you must first retrieve e-mail messages from your mailbox, see the next section.

You can continue reading the retrieved e-mail headings and/or the retrieved e-mail messages offline. You can write new e-mail messages, reply to the retrieved e-mail messages, and forward e-mail messages. You can order the e-mail messages to be sent the next time you connect to the mailbox. When you open *Mailbox* the next time and you want to view and read the e-mail messages offline, answer **No** to the *Connect to mailbox?* query.

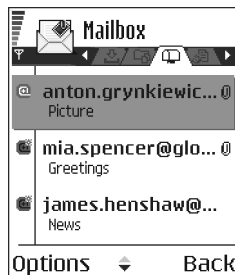
Options when viewing e-mail headings: *Open*, *Create message*, *Connect / Disconnect*, *Reply*, *Retrieve e-mail*, *Delete*, *Message details*, *Mark as read*, *Sort by*, *Copy to folder*, *Mark/Unmark*, *Help*, and *Exit*.

Retrieving e-mail messages from the mailbox

- If you are offline, select **Options**→*Connect* to start a connection to a remote mailbox.

The remote mailbox view is similar to the Inbox folder in Messaging. You can move up and down in the list by pressing  or . The following icons are used to show the status of the e-mail:

-  - new e-mail (offline or online mode). The content has not been retrieved from the mailbox to your phone (the arrow in the icon is pointing outwards).
-  - new e-mail, the content has been retrieved from the mailbox (arrow pointing inwards).
-  - for e-mail messages that have been read.
-  - for e-mail headings that have been read and the message content has been deleted from the phone.



- When you have an open connection to a remote mailbox, select **Options**→*Retrieve e-mail*→:

- New* - to retrieve all new e-mail messages to your phone.

- *Selected* - to retrieve only the e-mail messages that have been marked. Use the *Mark/Unmark*→ *Mark* / *Unmark* commands to select messages one by one. See "Actions common to all applications" on page 11.
- *All* - to retrieve all messages from the mailbox.

To cancel retrieving, press **Cancel**.

- 2 After you have retrieved the e-mail messages, you can continue viewing them online. Select **Options**→ *Disconnect* to close the connection and to view the e-mail messages offline.

Opening e-mail messages

Options when viewing an e-mail message: *Reply, Forward, Delete, Attachments, Message details, Move to folder* / *Copy to folder, Add to Contacts, Find, Help*, and *Exit*.

- When you are viewing e-mail messages either in online or offline mode, scroll to the e-mail you want to view and press  to open it. If the e-mail message has not been retrieved (arrow in the icon is pointing outwards) and you are offline and select *Open*, you will be asked if you want to retrieve this message from the mailbox. The data connection is left open after the e-mail has been retrieved. Select **Options**→ *Disconnect* to end the data connection.

Disconnecting from mailbox

When you are online, select **Options**→ *Disconnect* to end the data call or GPRS connection to the remote mailbox. See "Data connection indicators" on page 9.

Viewing e-mail attachments

Options in the Attachments view: *Open, Retrieve, Save, Send, Delete, Help*, and *Exit*.

- Open a message that has the attachment indicator  and select **Options**→ *Attachments* to open the Attachments view. In the Attachments view, you can retrieve, open, or save attachments, in supported formats. You can also send attachments, via infrared or Bluetooth.

 **Important:** E-mail attachments may contain viruses or otherwise be harmful to your phone or PC. Do not open any attachment if you are not sure of the trustworthiness of the sender. See "Certif. management" on page 73.

RETRIEVING ATTACHMENTS TO THE PHONE

- If the attachment has a dimmed indicator, it has not been retrieved to the phone. To retrieve the attachment, scroll to it and select **Options**→ *Retrieve*.
If your mailbox uses the IMAP4 protocol, you can decide whether to retrieve e-mail headings only, messages only, or messages and attachments. With the POP3 protocol, the options are e-mail headings only or messages and attachments. See "Settings for e-mail" on page 61.

OPENING AN ATTACHMENT

- 1 In the Attachments view, scroll to an attachment and press  to open it.
 - If you are online, the attachment is retrieved directly from the server and opened in the corresponding application.
 - If you are offline, the phone asks if you want to retrieve the attachment to the phone. If you answer *Yes*, a connection to the remote mailbox is started.
- 2 Press **Back** to return to the e-mail viewer.

SAVING ATTACHMENTS SEPARATELY

To save an attachment, select **Options**→ *Save* in the Attachments view. The attachment is saved in the corresponding application. For example, sounds can be saved in the Gallery, and text files (.TXT) in Notes.

Attachments, such as images, can be saved on the memory card, if one is used.

Deleting e-mail messages

- To delete an e-mail from the phone while still retaining it in the remote mailbox:
Select **Options**→ *Delete*→ *Phone only*.

The phone mirrors the e-mail headings in the remote mailbox. So, although you delete the message content, the e-mail heading stays in your phone. If you want to remove the heading as well, you have to first delete the e-mail message from your remote mailbox and then make a connection from your phone to the remote mailbox again to update the status.

- To delete an e-mail from both the phone and the remote mailbox:
Select **Options**→ *Delete*→ *Phone and server*.

If you are offline, the e-mail will be deleted first from your phone. During the next connection to the remote mailbox, it will be automatically deleted from the remote mailbox.

If you are using the POP3 protocol, messages marked to be deleted are removed only after you have closed the connection to the remote mailbox.

UNDELETING E-MAIL MESSAGES WHEN OFFLINE

To cancel deleting an e-mail from both the phone and server, scroll to an e-mail that has been marked to be deleted during the next connection () and select **Options**→ *Undo delete*.

• OUTBOX

Outbox is a temporary storage place for messages that are waiting to be sent.



Status of the messages in Outbox:

- *Sending* - A connection is being made and the message is being sent.
- *Waiting / Queued* - For example, if there are two similar types of messages in Outbox, one of them is waiting until the first one is sent.
- *Resend at (time)* - Sending has failed. The phone will try to send the message again after a time-out period. Press *Send* if you want to restart the sending immediately.
- *Deferred* - You can set documents to be 'on hold' while they are in Outbox. Scroll to a message that is being sent and select **Options**→ *Defer sending*.
- *Failed* - The maximum number of sending attempts has been reached. If you were trying to send a text message, open the message and check that the Sending settings are correct.

• VIEWING MESSAGES ON A SIM CARD

➡ In the Messaging main view, select **Options**→ *SIM messages*.

Before you can view SIM messages, you need to copy them to a folder in your phone. See "Actions common to all applications" on page 11.

• CELL BROADCAST (NETWORK SERVICE)

➡ In the Messaging main view, select **Options**→ *Cell broadcast*.



You may be able to receive messages on various topics, such as weather or traffic conditions from your service provider. For available topics and relevant topic numbers, contact your service provider. In the main view you can see:

- the status of the topic:  - for new, subscribed messages and  - for new, unsubscribed messages.
- the topic number, topic name, and whether it has been flagged () for follow-up. You will be notified when messages belonging to a flagged topic have arrived.

Options in Cell broadcast: *Open*, *Subscribe* / *Unsubscribe*, *Hotmark* / *Unhotmark*, *Topic*, *Settings*, *Help*, and *Exit*.



Note: A packet data (GPRS) connection may prevent cell broadcast reception. Contact your service provider for the correct GPRS settings. See "Packet data (General Packet Radio Service, GPRS)" on page 67.

• SERVICE COMMAND EDITOR



In the Messaging main view, select **Options** → *Service command*.



You can send service requests, such as activation commands for network services (also known as USSD commands), to your service provider. For more information, contact your service provider. To send a request:

- in standby mode or when you have an active call, key in the command number(s) and press **Send**, or
- if you need to enter letters as well as numbers, select **Messaging** → **Options** → *Service command*.

• MESSAGING SETTINGS

The Messaging settings have been divided into groups according to the different message types.

Settings for text messages

Go to **Messaging** and select **Options** → *Settings* → *Text message* to open the following list of settings:

- *Message centers* - Lists all the message centers that have been defined.



Options when editing message center settings: *New msg. center*, *Edit*, *Delete*, *Help*, and *Exit*.

- *Msg. center in use* (Message center in use)- Defines which message center is used for delivering text messages and configuration messages such as picture messages.
- *Receive report* (delivery report)- When this network service is set to *Yes*, the status of the sent message (*Pending*, *Failed*, *Delivered*) is shown in the Reports.
- *Message validity* - If the recipient of a message cannot be reached within the validity period, the message is removed from the message service center. Note that the network must support this feature. *Maximum time* is the maximum amount of time allowed by the network.

- *Message sent as* - The options are *Text*, *Fax*, *Paging*, and *E-mail*. For further information, contact your service provider.
Change this option only if you are sure that your message center is able to convert text messages into these other formats.
- *Preferred connection* - You can send text messages via the normal GSM network or via GPRS, if supported by the network. See "**Packet data (General Packet Radio Service, GPRS)**" on page 67.
- *Reply via same ctr.* (network service) - By setting this option to *Yes*, if the recipient replies to your message, the return message is sent using the same message service center number. Note that this may not work between all operators.

Settings for multimedia messages

Go to **Messaging** and select **Options**→*Settings*→*Multimedia message* to open the following list of settings:

- *Access point in use (Must be defined)* - Select which access point is used as the preferred connection for the multimedia message center. See "Settings for multimedia messages" on page 60.
If you receive multimedia message settings in a configuration message and save them, the received settings are automatically used for the Access point.
 - *Multimedia reception* - Select:
Only in home net. - if you want to receive multimedia messages only when you are in your home network. When you are outside your home network, multimedia message reception is turned off.
Always on - if you always want to allow the reception of multimedia messages.
Off - if you do not want to receive multimedia messages or advertisements at all.
-  **Important:** If the settings *Only in home net.* or *Always on* have been selected, your phone can make an active data call or GPRS connection without your knowledge.
- *On receiving msg.* - Select:
Retr. immediately - if you want the phone to try to retrieve multimedia messages instantly. If there are messages with Deferred status, they will be retrieved as well.
Defer retrieval - if you want the multimedia messaging center to save the message to be retrieved later. When you want to retrieve the message, set *On receiving msg.* to *Retr. immediately*.
Reject message - if you want to decline multimedia messages. The multimedia message center will delete the messages.

- **Allow anon. messages** - Select **No**, if you want to decline messages coming from an anonymous sender.
- **Receive ads** - Define whether you want to allow reception of multimedia message advertisements or not.
- **Receive report** - Set to **Yes**, if you want the status of the sent message (**Pending**, **Failed**, **Delivered**) to be shown in the Reports.
- **Deny report sending** - Choose **Yes**, if you do not want your phone to send delivery reports of received multimedia messages.
- **Message validity** (network service) - If the recipient of a message cannot be reached within the validity period, the message is removed from the multimedia message center. **Maximum time** is the maximum amount of time allowed by the network.
- **Image size** - Define the size of the image in a multimedia message. The options are: **Small** (max. of 160*120 pixels) and **Large** (max. 640*480 pixels).
- **Default speaker** - Choose **Loudspeaker** or **Handset**, depending on whether you want the sounds in a multimedia message to be played through the loudspeaker or the earpiece. See "Loudspeaker" on page 13.

Settings for e-mail

Go to **Messaging** and select **Options**→**Settings**→**E-mail**.

Open **Mailbox in use** to select which mailbox you want to use.

SETTINGS FOR MAILBOXES

 Options when editing e-mail settings: **Edit**, **New mailbox**, **Delete**, **Help**, and **Exit**.

Select **Mailboxes** to open a list of mailboxes that have been defined. If no mailboxes have been defined, you will be prompted to do so. The following list of settings is shown (this information is available from your e-mail service provider):

- **Mailbox name** - Write a descriptive name for the mailbox.
- **Access point in use (Must be defined)** - The Internet access point (IAP) used for the mailbox. Choose an IAP from the list. See "Connection settings" on page 66.
- **My e-mail address (Must be defined)** - Write the e-mail address given to you by your service provider. The address must contain the @ character. Replies to your messages are sent to this address.
- **Outgoing mail server: (Must be defined)** - Write the IP address or host name of the computer that sends your e-mail.

- **Send message** (network service) - Define how e-mail is sent from your phone.
Immediately - A connection to the mailbox is started immediately after you have selected **Send**. **During next conn.** - E-mail is sent when you connect to your remote mailbox the next time.
- **Send copy to self** - Select **Yes** to save a copy of the e-mail to the address defined in **My e-mail address** in your remote mailbox.
- **Include signature** - Select **Yes** if you want to attach a signature to your e-mail messages and to start to write or edit a signature text.
- **User name:** - Write your user name, given to you by your service provider.
- **Password:** - Write your password. If you leave this field blank, you will be prompted for the password when you try to connect to your remote mailbox.
- **Incoming mail server:** (**Must be defined**) - The IP address or host name of the computer that receives your e-mail.
- **Mailbox type:** - Defines the e-mail protocol your remote mailbox service provider recommends. The options are **POP3** and **IMAP4**.

This setting can be selected only once and cannot be changed if you have saved or exited from the mailbox settings.

- **Security** - Used with the POP3, IMAP4, and SMTP protocols to secure the connection to the remote mailbox.
- **APOP secure login** - Used with the POP3 protocol to encrypt the sending of passwords to the remote e-mail server. Not shown if IMAP4 is selected for **Mailbox type**.
- **Retrieve attachment** (not shown if the e-mail protocol is set to POP3) - To retrieve e-mail with or without attachments.
- **Retrieve headers** - To limit the number of e-mail headers you want to retrieve to your phone. The options are **All** and **User defined**. Used with the IMAP4 protocol only.

Settings for service messages

When you go to **Messaging** and select **Options**→**Settings**→**Service message**, the following list of settings opens:

- **Service messages** - Choose whether or not you want to allow reception of service messages.
- **Authentic. needed** - Choose if you want to receive service messages only from authorized sources.

Settings for cell broadcast

Check with your service provider whether Cell broadcast is available and what the available topics and related topic numbers are. Go to **Messaging**→**Options**→**Settings**→**Cell broadcast** to change the settings:

- **Reception** - *On* or *Off*.
- **Language** - *All* allows you to receive cell broadcast messages in every possible language. *Selected* allows you to choose in which languages you wish to receive cell broadcast messages. If the language you prefer could not be found in the list, select *Other*.
- **Topic detection** - If you receive a message that does not belong to any of the existing topics, **Topic detection**→*On* allows you to save the topic number automatically. The topic number is saved to the topic list and shown without a name. Choose *Off* if you do not want to save new topic numbers automatically.

Settings for the other folder

Go to **Messaging** and select **Options**→**Settings**→**Other** to open the following list of settings:

- **Save sent messages** - Choose if you want to save a copy of every text message, multimedia message, or e-mail that you have sent to the Sent items folder.
- **No. of saved msgs.** - Define how many sent messages will be saved to the Sent items folder at a time. The default limit is 20 messages. When the limit is reached, the oldest message is deleted.
- **Memory in use** - Define the memory store. Choices are phone's memory or memory card, if one is used.

7 Tools

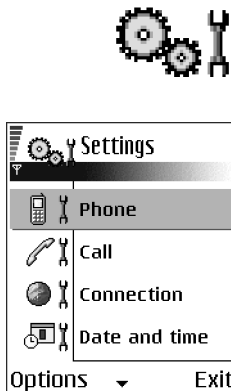
• SETTINGS

Changing general settings

➡ Go to **Menu**→**Tools**→**Settings**.

- 1 Scroll to a setting group and press  to open it.
- 2 Scroll to a setting you want to change and press  to:
 - switch between options if there are only two (**On/Off**),
 - open a list of options or an editor,
 - open a slider view, press  or  to increase or decrease the value, respectively.

You may be able to receive some settings from your service provider in a short message.



Phone settings



GENERAL

Phone language – You can change the language for the display texts in your phone. This change may also affect the format used for date and time and the separators used, for example, in calculations. There are three languages installed in your phone. If you select **Automatic**, the phone selects the language according to the information on your SIM card. After you have changed the display text language, you must restart the phone.

Changing the settings for **Phone language** or **Writing language** affects every application in your phone and the change remains effective until you change these settings again.

Writing language – You can change the writing language of your phone permanently. Changing the language affects:

- the characters available when you press any key ( - ) ,
- the predictive text dictionary used, and

- the special characters that are available when you press the  and  keys.

Predictive text – To set predictive text input *On* or *Off* for all editors in the phone. You can also change this setting when you are in an editor. See “Tips on using predictive text input” on page 44.

Welcome note or logo – The welcome note or logo is displayed briefly each time you switch on the phone. Select *Default* if you want to use the default image or animation. Select *Text* to write a welcome note (max. 50 letters). Select *Image* to select a photo or picture from the Gallery.

Orig. phone settings – You can reset some of the settings to their original values. To do this, you need the lock code. See “Security” on page 71. After resetting the settings, the phone may take a longer time to power on. All documents and files that you have created are left as they are.

STANDBY MODE

Left selection key and **Right selection key** – You can change the shortcuts that appear over the left  and right  selection keys in standby mode. In addition to the applications, you can have the shortcut point to a function, for example, *New message*.

You can only have shortcuts to pre-installed applications and functions.

DISPLAY

Screen saver timeout – The screen saver is activated when the screen saver time-out period is over. When the screen saver is active, the display is cleared and you can see the screen saver bar.

To deactivate the screen saver press any key.

Call settings



SEND CALLER ID (NETWORK SERVICE)

- This network service allows you to set your phone number to be displayed (*Yes*) or hidden (*No*) from the person to whom you are calling. Or, the value may be set by your service provider when you make a subscription.

CALL WAITING (NETWORK SERVICE)

- The network will notify you of a new incoming call while you have a call in progress. Select *Activate* to request the network to activate call waiting, *Cancel* to request the network to deactivate call waiting, or *Check status* to check if the function is active or not.

AUTOMATIC REDIAL

- When this setting is activated, your phone will make a maximum of ten attempts to connect the call after an unsuccessful call attempt. Press  to stop automatic redialing.

SUMMARY AFTER CALL

- Activate this setting if you want the phone to briefly display the duration of the last call.

1-TOUCH DIALING

- Select [On](#) and the numbers assigned to the 1-touch dialing keys ( - ) can be dialed by pressing and holding the key. See "Assigning 1-touch dialing keys" on page 25.

ANYKEY ANSWER

- Select [On](#), and you can answer an incoming call by briefly pressing any key, except , , and .

LINE IN USE (NETWORK SERVICE)

- This setting is shown only if the SIM card supports two subscriber numbers, that is, two phone lines. Select which phone line ([Line 1](#) or [Line 2](#)) you want to use for making calls and sending short messages. Calls on both lines can be answered irrespective of the selected line.



Note: You will not be able to make calls if you select [Line 2](#) and have not subscribed to this network service.

To prevent line selection, select [Line change](#) → [Disable](#) if supported by your SIM card. To change this setting, you need the PIN2 code.

Connection settings



GENERAL INFORMATION ABOUT DATA CONNECTIONS AND ACCESS POINTS

Access point - The point where your phone connects to the Internet by way of a data call or packet data connection. An access point can be provided, for example, by a commercial Internet service provider (ISP), service provider.

To define settings for access points, go to [Settings](#) → [Connection](#) → [Access points](#).

A data connection is required to connect to an access point. Your phone supports three kinds of data connections:

- a GSM data call ()
- GSM high-speed data call () , or
- packet data (GPRS) connection () .

There are three different kinds of access points that you can define: MMS access point, browser access point, and Internet access point (IAP). Check with your service provider what kind of an access point is needed for the service you wish to access. You need to set access point settings, if you want to, for example,

- send and receive multimedia messages,
- send and receive e-mail,
- download Java™ applications,
- use Image upload, or
- browse pages.

See "Data connection indicators" on page 9.

GSM data calls

A GSM data call enables data transmission rates to a maximum of 14.4 kbps. For availability and subscription to data services, contact your service provider.

High speed data call (High Speed Circuit Switched Data, HSCSD)

For availability and subscription to high-speed data services, please contact your service provider.

The Settings wizard included in the PC Suite can help you to configure access point and mailbox settings. You can also copy existing settings, for example, from your computer to your phone. See the CD-ROM supplied in the sales package.

Sending data in HSCSD mode may drain the phone's battery faster than normal voice or data calls, as the phone may send data more frequently to the network.

Packet data (General Packet Radio Service, GPRS)

Minimum settings needed to make a packet data connection

- You need to subscribe to the GPRS service. For availability and subscription to GPRS, contact your service provider.
- Go to [Settings](#)→[Connection](#)→[Access points](#) and select [Options](#)→[New access point](#)→[Use default settings](#). Fill in the following: [Data bearer](#): [GPRS](#) and [Access point name](#): enter the name given to you by your service provider. See "Creating an access point" on page 68.

Pricing for packet data and applications

Both the active GPRS connection and the applications used over GPRS require a fee, for example, using services, sending and receiving data, and short messages. For more detailed information on fees, contact your service provider. See "Viewing the general log" on page 21.

CREATING AN ACCESS POINT

Options in the Access points list: [Edit](#), [New access point](#), [Delete](#), [Help](#), and [Exit](#).

You may have preset access point settings in your phone. Or, you may receive access point settings over the air from a service provider.

If there are no access points defined when you open [Access points](#), you will be asked if you want to create one.

If there already are access points defined, to create a new access point, select [Options](#) → [New access point](#) and select:

- [Use default settings](#) to use the default settings. Make the needed changes and press [Back](#) to save the settings.
- [Use existing settings](#) to use existing setting information as the basis for the new access point settings. A list of existing access points is opened. Select one and press [OK](#). Access point settings are opened with some fields already filled.

Editing an access point

When you open Access points, the list of already available access points opens. Scroll to the access point you want to edit, and press .

Options when editing access point settings: [Change](#), [Advanced settings](#), [Help](#), and [Exit](#).

ACCESS POINTS

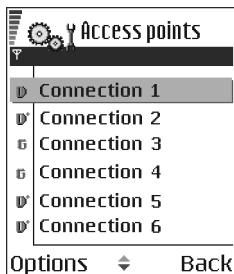
Here you can see a short explanation for every setting that may be needed for different data connections and access points.

Start to fill in the settings from the top because depending on what data connection you select ([Data bearer](#)) only certain setting fields are available.

- [Connection name](#) – Give a descriptive name for the connection.
- [Data bearer](#) – The options are [GPRS](#), [Data call](#), and [High speed \(GSM\)](#). Depending on what data connection you select, only certain setting fields are available. Fill in all fields marked with [Must be defined](#), or with an asterisk. Other fields can be left empty, unless you have been instructed otherwise by your service provider.

To be able to use a data connection, the network service provider must support this feature, and if necessary, activate it for your SIM card.

- [Access point name](#) (for packet data only) – The access point name is needed to establish a connection to the GPRS network. You obtain the access point name from your service provider.



- **Dial-up number** (for Data call and High speed (GSM) only) - The modem telephone number of the access point.
- **User name** - Write a user name if required by the service provider. The user name may be needed to make a data connection, and is usually provided by the service provider. The user name is often case-sensitive.
- **Prompt password** - If you must key in a new password every time you log on to a server, or if you do not want to save your password to the phone, choose **Yes**.
- **Password** - A password may be needed to make a data connection, and is usually provided by the service provider. The password is often case-sensitive. When you are writing the password, the characters you enter are shown briefly and then changed to asterisks (*). The easiest way to enter numbers is to press and hold the digit you want to enter, and then continue entering letters.
- **Authentication** - **Normal** / **Secure**.
- **Homepage** - Depending on what you are setting up, write either:
 - the service address, or
 - the address of the multimedia messaging center.
- **Data call type** (for GSM data and high speed data only) - **Analog**, **ISDN v.110**, or **ISDN v.120** defines whether the phone uses an analog or digital connection. This setting depends on both your GSM service provider and Internet service provider (ISP), because some GSM networks do not support certain types of ISDN connections. For details, contact your ISP. If ISDN connections are available, they establish connections more quickly than analog methods.
- **Maximum data speed** (for GSM data and high speed data only) - The options are **Automatic** / 9600 / 14400 / 19200 / 28800 / 38400 / 43200, depending on what you have chosen in **Data call type**. This option allows you to limit the maximum connection speed when high speed data is used. Higher data rates may cost more, depending on the service provider.



Note: The speeds above represent the maximum speed at which your connection will operate. During the connection, the operating speed may be less, depending on network conditions.

OPTIONS→ ADVANCED SETTINGS

- **Phone IP address** - The IP address of your phone.
- **Primary name server** - The IP address of the primary DNS server.
- **Second. name server** - The IP address of the secondary DNS server.
- **Proxy serv. address** - The IP address of the proxy server.
- **Proxy port number** - The port number of the proxy server.

If you need to enter these settings, contact your Internet service provider.

The following settings are shown if you have selected data call and high speed data as the connection type:

- [Use callback](#) - This option allows a server to call you back once you have made the initial call. Contact your service provider to subscribe to this service.



Note: Charges may apply for certain types of received calls, such as roaming and high speed data calls. Contact your GSM service provider for more information.

The phone expects the callback call to use the same data call settings that were used in the callback-requesting call. The network must support that type of call in both directions, to and from the phone.

- [Callback type](#) - The options are [Use server no.](#) / [Use other no.](#). Ask your service provider for the correct setting to use; it will depend on the service provider's configuration.
- [Callback number](#) - Key in your phone's data phone number which the dial back server uses. Usually, this number is the data call phone number of your phone.
- [Use PPP compression](#) - When set to [Yes](#), this option speeds up the data transfer, if supported by the remote PPP server. If you have problems with establishing a connection, try setting this to [No](#). Contact your service provider for guidance.
- [Use login script](#) - The options are [Yes](#) / [No](#).
- [Login script](#) - Insert the login script.
- [Modem initialization](#) (Modem initialization string)- Controls your phone using modem AT commands. If required, enter characters specified by your service provider or Internet service provider.

GPRS



Go to [Settings](#)→[Connection](#)→[GPRS](#).

The GPRS settings affect all access points using a packet data connection.

[GPRS connection](#) - If you select [When available](#) and you are in a network that supports packet data, the phone registers to the GPRS network and sending short messages will be done via GPRS. Also, starting an active packet data connection, for example, to send and receive e-mail, is quicker. If you select [When needed](#), the phone will use a packet data connection only if you start an application or action that needs it. The GPRS connection can be closed after it is not used by any application.

If there is no GPRS coverage and you have chosen [When available](#), the phone will periodically try to establish a packet data connection.

Access point - The access point name is needed when you want to use your phone as a packet data modem to your computer. See "Using your phone as a modem" on page 106.

DATA CALL

➡ Go to *Settings*→ *Connection*→ *Data call*.

The *Data call* settings affect all access points using a data call and high speed data call.

Online time - If there are no actions the data call is dropped automatically after a time-out period. The options are *User defined*, in which case you enter a time, or *Unlimited*.

Date and time



The *Date and time* settings allow you to define the date and time used in your phone, as well as change the date and time format and separators.

- *Clock type*→ *Analog* or *Digital* - to change the clock shown in standby mode. See "Clock" on page 88.
- *Clock alarm tone* - to change the tone played when the clock alarm time is reached.
- *Auto time update* - to allow the network to update time, date, and time zone information to your phone (network service). For the *Auto time update* setting to take effect, the phone needs to be restarted. Check any alarms as these may be affected by *Auto time update*.
- *GMT offset* - to change the time zone for the clock time.
- *Daylight-saving* - to set daylight saving time on or off.

Security



PHONE AND SIM

Explanations for the different security codes that may be needed:

- **PIN code (4 to 8 digits)** - The PIN (Personal Identification Number) code protects your SIM card against unauthorized use. The PIN code is usually supplied with the SIM card.

After three consecutive incorrect PIN code entries, the PIN code is blocked. If the PIN code is blocked, you need to unblock the PIN code before you can use the SIM card again. See the information about the PUK code.

- **PIN2 code (4 to 8 digits)** - The PIN2 code, supplied with some SIM cards, is required to access some functions.

- **Lock code (5 digits)** - The lock code can be used to lock the phone and keypad to avoid unauthorized use.

The factory setting for the lock code is **12345**. To avoid unauthorized use of your phone, change the lock code. Keep the new code secret and in a safe place separate from your phone.

- **PUK and PUK2 codes (8 digits)** - The PUK (Personal Unblocking Key) code is required to change a blocked PIN code. The PUK2 code is required to change a blocked PIN2 code. If the codes are not supplied with the SIM card, contact the operator whose SIM card is in your phone for the codes.

You can change the following codes: lock code, PIN code, and PIN2 code. These codes can only include the numbers from **0** to **9**.

Avoid using access codes similar to emergency numbers, such as 911, to prevent accidental dialing of the emergency number.

PIN code request - When the PIN code request is active, the code is requested each time the phone is switched on. Note that deactivating the PIN code request may not be allowed by some SIM cards.

PIN code / PIN2 code / Lock code - Open this setting if you want to change the code.

Autolock period - You can set an autolock period, a time-out after which the phone is automatically locked and can be used only if the correct lock code is entered. Key in a number for the time-out in minutes or select **None** to turn off the autolock period.

- To unlock the phone, key in the lock code.



Note: When the phone is locked, calls may be possible to the emergency number programed into your phone (e.g. 911 or other official emergency number).

Lock if SIM changed - Select **Yes** if you want the phone to ask for the lock code when an unknown, new SIM card is inserted into your phone. The phone maintains a list of SIM cards that are recognized as the owner's cards.

Fixed dialing - You can restrict your outgoing calls to selected phone numbers, if supported by your SIM card. You need the PIN2 code for this function. When this function is active, you can only call those phone numbers that are included in the fixed dialing list or which begin with the same digit(s) as a phone number on the list.

- Press  to set **Fixed dialing** on.

 Options in the Fixed dialing view: **Open**, **Call**, **Activ. fixed dialing/Deact. fixed dialing**, **New contact**, **Edit**, **Delete**, **Add to Contacts**, **Add from Contacts**, **Find**, **Mark/Unmark**, **Help**, and **Exit**.



Note: When Fixed dialing is set on, calls may be possible to certain emergency numbers in some networks (e.g. 911 or other official emergency number).

- To add new numbers to the Fixed dialing list, select **Options**→ *New contact* or *Add from Contacts*.

Closed user group (network service) – You can specify a group of people to whom you can call and who can call you. For more information, contact your service provider. Select: *Default* to activate the default group agreed on with the service provider, *On* if you want to use another group (you need to know the group index number), or *Off*.



Note: When calls are limited to Closed User Groups, calls may be possible to certain emergency numbers in some networks (e.g. 911 or other official emergency number).

Confirm SIM services (network service) – To set the phone to display confirmation messages when you are using a SIM card service.

Delete server – To reset your connection settings allowing you to receive new settings from your service provider.

CERTIF. MANAGEMENT

In the Certificate management main view, you can see a list of authority certificates that have been stored in your phone. Press  to see a list of personal certificates, if available.

Authority certificates are used by some browser services, such as banking services, for checking signatures or server certificates or other authority certificates.

Digital certificates are used to verify the origin of browser pages and installed software. However, they can only be trusted if the origin of the certificate is known to be authentic.

 Options in the certificate management main view: *Certificate details*, *Delete*, *Trust settings*, *Mark/Unmark*, *Help*, and *Exit*.

Digital certificates may be needed when you, for example:

- want to connect to an online bank or another site or remote server for actions that involve transferring confidential information, or
- want to decrease the risk of viruses or other malicious software and be sure of the authenticity of software when downloading and installing software.



Important: Even if the use of certificates makes the risks involved in remote connections and software installation considerably smaller, they must be used correctly in order to benefit from increased security. The existence of a certificate does not offer any protection by itself; the certificate manager must contain correct, authentic, or trusted certificates for increased security to be available.

Certificates have a restricted lifetime. If *Expired certificate* or *Certificate not valid yet* is shown even if the certificate should be valid, check that the current date and time in your phone are correct.

Changing the trust settings of an authority certificate

- Scroll to an authority certificate and select **Options**→ *Trust settings*. Depending on the certificate, a list of the applications that can use the selected certificate is shown. For example:
Application manager / *Yes* - the certificate is able to certify the origin of new software.
Internet / *Yes* - the certificate is able to certify e-mail and imaging servers.



Important: Before changing these settings, you must make sure that you really trust the owner of the certificate and that the certificate really belongs to the listed owner.

Call restriction (network service)



Call restriction allows you to restrict the making and receiving of calls with your phone. For this function, you need the restriction password, which you can obtain from your service provider.

- 1 Scroll to one of the restriction options.
 - 2 Select **Options**→ *Activate* to request the network to set call restriction on, *Cancel* to set the selected call restriction off, or *Check status* to check if the calls are restricted or not.
- Select **Options**→ *Edit restr. password* to change the restriction password.
 - Select **Options**→ *Cancel all restrict.* to cancel all active call restrictions.



Note: When calls are restricted, calls may be possible to certain emergency numbers in some networks (e.g. 911 or other official emergency number).

Call restriction affects all calls, including data calls.

You cannot have restriction of incoming calls and call forwarding or fixed dialing active at the same time. See "Settings for call forwarding" on page 19.

Network



Operator selection

- Choose *Automatic* to set the phone to automatically search for and select one of the cellular networks available in your area, or
- Choose *Manual*, if you want to select the desired network manually from a list of networks. If the connection to the manually selected network is lost, the phone will sound an error tone and ask you to select a network again. The selected network must have a roaming agreement with your home network, that is, the operator whose SIM card is in your phone.

Cell info display

- Select **On** to set the phone to indicate when it is used in a cellular network based on Micro Cellular Network (MCN) technology and to activate cell info reception.

Enhancement settings



Indicators shown in standby mode:

- a headset is connected.

- a loopset is connected.

Scroll to an enhancement folder and open the settings:

- Select **Default profile** to select the profile you want to be activated each time when you connect a certain enhancement to your phone. See "Changing the profile" on page 79.
- Select **Automatic answer** to set the phone to answer an incoming call automatically after five seconds time. If the **Ringing type** is set to **Beep once** or **Silent**, automatic answer cannot be used, and you must answer the phone manually.

If you are using a loopset, you need to activate it separately. If you have activated a loopset, the headset will use the same settings as the loopset.

• FILE MANAGER

Go to **Menu** → **Tools** → **File manager**.

In File manager you can browse, open, and manage files and folders in the phone memory or on the memory card, if you use one.

Open File manager to see a list of the folders in the phone memory. Press to see the folders on the memory card, if you use one.

Options in the File manager main view:
Open, Send, Delete, Move to folder, Copy to folder, New folder, Mark/Unmark, Rename, Find, Receive via infrared, View details, Memory details, Help, and Exit.

You can browse, open, and create folders, mark, copy and move items to folders. See "Actions common to all applications" on page 11.



Receiving files via Infrared

Files are automatically received to the root level of the folder structure. Move or copy them to other folders.

- Select **Options**→ *Receive via infrared*. See "Sending and receiving data via infrared" on page 103.

Viewing memory consumption

If you have a memory card installed on your phone, you will have a choice of two memory views, one for the phone memory and one for the memory card.

Press  or  to move from one memory tab to another.

- To check memory consumption of the current memory select **Options**→*Memory details*.

The phone calculates the approximate amount of free memory for storing data and installing new applications.

In the memory views, you can view the memory consumption of the different data groups: *Calendar, Contacts, Documents, Messages, Images, Sound files, Video clips, Applications, Mem. in use*, and *Free memory*.

If the phone memory is getting low, remove some files, or move them to the memory card. See "Troubleshooting" on page 108.

• VOICE COMMANDS

 Go to **Menu**→ **Tools**→ **Voice commands**.



You can use Voice commands to start applications and profiles, and to dial numbers from Contacts, without having to look at your phone's display. You record a word, or words, (voice command) and then say this voice command to open an application, activate a profile, or dial a number.

You can have only one voice command per item.

 Options in the Voice commands main view: *Add voice command, Open, New application, Playback, Change, Delete, Delete all, Help*, and *Exit*.

Any spoken word(s) can be a voice command.

- When recording, hold the phone at a short distance away from your mouth. After the starting tone, say clearly the word, or words, you want to record as a voice command.

Before using voice commands, note that:

- Voice commands are not language dependent. They are dependent on the speaker's voice.

- Voice commands are sensitive to background noise. Record and use them in a quiet environment.
- Very short voice commands are not accepted. Use longer words and avoid similarities between different voice commands.



Note: You must say the voice command exactly as you said it when you recorded it. This may be difficult in, for example, a noisy environment or during an emergency, so you should not rely solely upon voice commands in all circumstances.

Adding a voice command to an application

- 1 In the Voice commands main view, scroll to the application that you want to add a voice command to, and select **Options**→ *Add voice command*.

To add a voice command to a profile, the Profiles folder must be opened and a specific profile selected.

- 2 The text *Press 'Start', then speak after tone* is displayed.
- Press **Start** to record a voice command. The phone sounds a starting tone and the note *Speak now* is displayed.
- 3 Say the voice command. The phone will stop recording after approximately 5 seconds.
- 4 After recording, the phone plays the recorded command and the note *Playing voice command* is displayed. If you do not want to save the recording, press **Quit**.
- 5 When the voice command has been successfully saved, the note *Voice command saved* is displayed and a beep sounds. A symbol  can be seen next to the application.



ADDING AN APPLICATION TO THE LIST

Assign voice commands to other applications that are not listed in the Voice commands main view.

- 1 In the Voice commands main view, select **Options**→ *New application*.
- 2 Available applications are displayed. Scroll to the application that you want to add and press **Select**.
- 3 Add a voice command to the new application. See "Adding a voice command to an application" on page 77.

Starting an application using a voice command

- 1 In standby mode, press and hold . A short tone is played and the note *Speak now* is displayed.
- 2 When you are starting an application by saying a voice command, hold the phone at a short distance away from your mouth and say the voice command clearly.
- 3 The phone plays the original voice command and starts the application.
 - If the phone plays the wrong voice command, press **Retry**.

Replaying, erasing, or changing a voice command

To replay, erase, or change a voice command, scroll to the item that has a voice command (indicated by ) , select **Options**, and then either:

- *Playback* - to listen to the voice command again, or
- *Delete* - to erase the voice command, or
- *Change* - to record a new voice command. Press **Start** to record.

8 Personalization

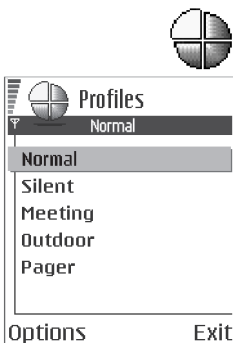
• PROFILES

➡ Go to **Menu**→ **Profiles**.

In Profiles, you can adjust and customize the phone tones for different events, environments, or caller groups. There are five preset profiles: *Normal*, *Silent*, *Meeting*, *Outdoor*, and *Pager*, which you can customize to meet your needs.

You can see the currently selected profile at the top of the display in standby mode. If the Normal profile is in use, only the current date is shown.

The tones can be default ringing tones, tones recorded in Recorder, tones received in a message, or transferred to your phone via infrared, Bluetooth, or a PC connection and then saved to your phone or memory card, if you use one.



Changing the profile

1 Go to **Menu**→ **Profiles**. A list of profiles opens.

2 In the Profiles list, scroll to a profile and select **Options**→ **Activate**.

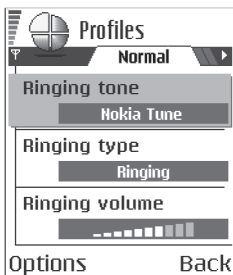
To change the profile in standby mode, press **Ⓢ**, scroll to the profile you want to activate and press **OK**.

Customizing profiles

1 To modify a profile, scroll to the profile in the Profiles list and select **Options**→ **Personalize**. A list of profile settings opens.

2 Scroll to the setting you want to change and press **Ⓢ** to open the choices:

- **Ringing tone** - To set the ringing tone for voice calls, choose a ringing tone from the list. When you scroll through the list, you can stop on a tone to listen to it before you make your selection. Press any key to stop the sound. If a memory card is used, tones stored on it have the  icon next to the tone name. Ringing tones use shared memory. See "Shared memory" on page 3. You can also change ringing tones in Contacts. See "Adding a ringing tone for a contact card or group" on page 25.



To use MIDI, AMR, WAV, MP3, and other sound files as ringing tones, they must be stored in the Digital sounds folder in the Gallery.

- **Ringing type** - When **Ascending** is selected, the ringing volume starts from level one and increases level by level to the set volume level.
- **Ringing volume** - To set the volume level for the ringing and message alert tones.
- **Message alert tone** - To set the tone for messages.
- **IM alert tone** - To set the tone for instant messages.
- **Vibrating alert** - To set the phone to vibrate at incoming voice calls and messages.
- **Keypad tones** - To set the volume level for keypad tones.
- **Warning tones** - The phone sounds a warning tone, for example, when the battery is running out of power.
- **Alert for** - To set the phone to ring only upon calls from phone numbers that belong to a selected contact group. Phone calls coming from people outside the selected group will have a silent alert. The choices are **All calls** / (list of contact groups, if you have created them). See "Creating contact groups" on page 26.
- **Profile name** - You can rename a profile and give it any name you want. The Normal profile cannot be renamed.

• THEMES

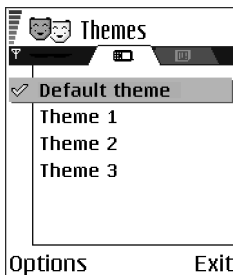
➡ Go to **Menu**→ **Themes**

In Themes you can change the look of your phone's display by activating a theme. A theme can include the idle screen wallpaper, color palette, screen saver, and icons and background image in 'Go to'. Edit a theme for more detailed personalization.

When you open Themes you will see a list of the available themes. The currently active theme is indicated by a check mark. Press  to see the themes on the memory card, if you use one.

 Options in the Themes main view: **Preview**, **Apply**, **Edit**, **Copy to mem. card**, **Copy to phone mem.**, **Theme downloads**, **Help**, and **Exit**.

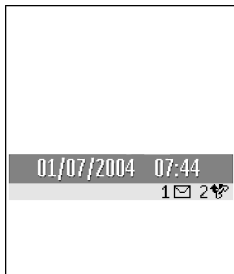
- To preview a theme, scroll to the theme and select **Options**→ **Preview** to view the theme. Press  to activate the theme. You can activate the theme without previewing it by selecting **Options**→ **Apply** from the main view.



Editing themes

Group together elements from other themes, or images from the Gallery to personalize themes further.

- 1 Scroll to a theme, select **Options**→ *Edit*, and select:
 - *Wallpaper* - To select an image from one of the available themes, or select your own image from the Gallery, to use as a background image in standby mode.
 - *Color palette* - To change the color palette used on the display.
 - *Screen saver* - To select what is shown on the screen saver bar: the time and date or a text you have written yourself. The location and background color of the screen saver bar changes in one minute intervals. Also, the screen saver changes to indicate the number of new messages or missed calls. You can set the time that elapses before the screen saver is activated. See "Phone settings" on page 64.
 - *Icons* - To select a different icon set from any one of the themes.



Note: All pre-installed themes have the same icon set.

- *Image in 'Go to'* - To select an image from one of the available themes, or select your own image from the Gallery, to use as a background image in Go to.
- 2 Scroll to the element to edit and select **Options**→ *Change*.
 - 3 Select **Options**→ *Set* to select the current setting. You can also preview the selected element by selecting **Options**→ *Preview*. Note that you cannot preview all elements.

RESTORING THEMES

To restore the currently selected theme back to its original settings, select **Options**→ *Restore orig. theme* when editing a theme.

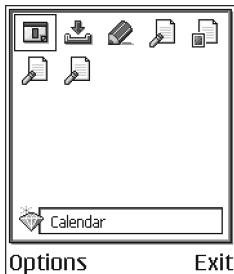
• GO TO

➡ Press **Go to** in standby mode or go to **Menu**→ **Go to**.

Use Go to for storing shortcuts, links to your favorite photos, video clips, notes, Recorder sound files, browser bookmarks, and saved browser pages.

The default shortcuts:  - opens the Notes editor,  - opens the Calendar to the current date,  - opens the Messaging Inbox.

Options in the Go to main view: *Open, Edit shortcut name, Shortcut icon, Delete shortcut, Move, List view / Grid view, Help, and Exit.*



Adding shortcuts

Shortcuts can be added only from pre-installed applications and functions. Not all applications have this functionality.

- 1 Open the application and scroll to the item that you want to add as a shortcut to Go to.
- 2 Select **Options**→ *Add to 'Go to'* and press **OK**.

A shortcut in Go to is automatically updated if you move the item it is pointing to, for example, from one folder to another.

USING SHORTCUTS:

- **To open a shortcut**, scroll to the icon and press . The file is opened in the corresponding application.
- **To delete a shortcut**, scroll to the shortcut you want to remove and select **Options**→ *Delete shortcut*. Removing a shortcut does not affect the file it is referring to.
- **To change the shortcut name**, select **Options**→ *Edit shortcut name*. Write the new name. This change affects only the shortcut, not the file or item the shortcut refers to.

9 Extras

• WALLET

➡ Go to **Menu** → **Extras** → **Wallet**.

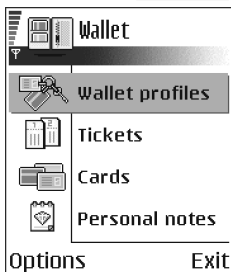


Wallet provides you with a storage area for your personal information, such as credit and debit card numbers, addresses and other useful data, for example, user names and passwords.

The information stored in the wallet can be easily retrieved while browsing to automatically fill in online forms on browser pages, for example, when the service asks for credit card details. Data in the wallet is encrypted and protected with a wallet code that you define.

You can group wallet data into profiles that can be accessed, for example for making purchases online.

Due to the nature of the wallet, it will automatically close after 5 minutes. Enter the wallet code to regain access to the contents. You can change this automatic time-out period, if required. See "Wallet settings" on page 86.



Options in the wallet main view: *Open*, *Settings*, *Help*, and *Exit*.

Entering the wallet code

Each time you open the wallet you will be prompted for a wallet code.

Enter the code that you have created and press **OK**.

When you open the wallet for the first time, you must create your own access code:

- 1 Enter a code of your choice (4 - 10 alphanumeric characters), and press **OK**.
- 2 You will be prompted to verify the code. Enter the same code and press **OK**. Do not give your wallet code to anyone else.

If you enter the wallet code incorrectly on three consecutive occasions, the wallet application is blocked for five minutes. The block time increases if further incorrect wallet codes are entered.



Important: If you forget your wallet code, you will have to reset the code, and you will lose all information stored in the wallet. See "Resetting the wallet and wallet code" on page 86.

Storing personal card details

- 1 Select the *Cards* category from the main wallet menu and press .
- 2 Select a type of card from the list and press .
 - *Payment cards* - Credit and debit cards
 - *Loyalty cards* - Membership and store cards
 - *Online acc. cards* - Personal user names and passwords to online services
 - *Address cards* - Basic contact details for home/office
 - *User info cards* - Customized personal preferences for online services
- 3 Select **Options**→ *Create new*. An empty form opens.
- 4 Fill in the fields and press **Done**.

You can also receive card information directly to the phone from a card issuer or service provider (if they offer this service). You will be notified which category the card belongs to. Save or discard the card. You can view and rename a saved card, but you cannot edit it.

You can open, edit or delete the fields in the card. Any changes will be saved upon exiting.

 Options when viewing or editing card details: *Delete*, *Help*, and *Exit*.

Creating personal notes

Personal notes are a means of storing sensitive information, for example, a bank account number. You can access the data in a personal note from the browser. You can also send a note as a message.

- Select the *Personal notes* category from the main wallet menu and press .
- Select **Options**→ *Create new*. An empty note opens.
- Press  -  to start writing. Press  to clear characters. Press **Done** to save.

Creating a wallet profile

Once you have stored your personal details, you can combine them together into a wallet profile. Use a wallet profile to retrieve wallet data from different cards and categories to the browser.

- 1 Select the *Wallet profiles* category from the main wallet menu and press .
- 2 Select **Options**→ *Create new*. A new wallet profile form opens.
- 3 Fill in the fields as indicated below and press **Done**.

Some of the fields must contain data selected from the wallet. You must save the data under the relevant category before creating a wallet profile, or the profile cannot be created.

- *Profile name* - Choose and enter a name for the profile.
- *Payment card* - Select a card from the Payment card category.
- *Loyalty card* - Select a card from the Loyalty card category.
- *Online access card* - Select a card from the Online acc. card category.
- *Shipping address* - Select an address from the Address card category.
- *Billing address* - By default this is the same as the Shipping address. If you require a different address, select one from the Address card category.
- *User info card* - Select a card from the User info card category.
- *Receive e-receipt* - Select a destination from the Address card category.
- *Deliver e-receipt* - Select *To phone*, *To e-mail*, or *To pho. & e-mail*.
- *RFID sending* - Set to *On* or *Off*. Defines whether, or not, your unique phone identification is sent with the wallet profile (for future development dependent on RFID-based ticketing).

Retrieving information from wallet to your browser

When using online mobile services supporting the wallet functionality, you can upload the data stored in your wallet to automatically enter your details into an online form. For example, by uploading your payment card details you do not need to key in the card number and expiry date each time you need them (depending on the content being browsed). Also, you can retrieve your user name and password stored as an access card when connecting to a mobile service that requires authentication. See "Purchasing an item" on page 95.

Viewing ticket details

You can receive notifications of tickets purchased online via the browser. Received notifications are stored in the wallet. To view the notifications:

- 1 Select the *Tickets* category from the main wallet menu and press .
- 2 Select **Options** → *View*.

None of the fields within the notification can be modified.

Wallet settings

Select **Options**→ **Settings** from the main wallet menu:

- **Wallet code** - Change your wallet code. You will be prompted to enter the current code, create a new code, and verify the new code.
- **RFID** - Set the phone ID code, type, and sending options (for future development dependent on RFID-based ticketing).
- **Automatic close** - Change the automatic time-out period (1 - 60 minutes). After the time-out period has elapsed, the wallet code must be re-entered to gain access to the contents.

Resetting the wallet and wallet code

To reset both the contents of the wallet and the wallet code:

- 1 Key in *#7370925538# in standby mode.
- 2 Enter the phone's lock code, and press **OK**. See "Security" on page 71.



Note: This operation erases all contents of the wallet.

When opening the wallet again, you must enter a new wallet code. See "Entering the wallet code" on page 83.

• CALCULATOR



Go to **Menu**→ **Extras**→ **Calculator**.



Options in Calculator: **Last result**, **Memory**, **Clear screen**, **Help**, and **Exit**.

- 1 Enter the first number of your calculation. Press  to erase a mistake in the number.
- 2 Scroll to an arithmetic function and press  to select it.
- 3 Enter the second number.
- 4 To execute the calculation, scroll to  and press .



Note: The Calculator has limited accuracy and rounding errors may occur, especially in long divisions.

- To add a decimal, press .
- Press and hold  to clear the result of the previous calculation.
- Use  and  to view previous calculations and move in the sheet

• CONVERTER

➡ Go to **Menu**→ **Extras**→ **Converter**.



In Converter, you can convert measures such as *Length* from one unit to another, for example, *Yards* to *Meters*.



Note: The Converter has limited accuracy and rounding errors may occur.

Converting units

Options in Converter: *Conversion type*, *Currency rates* (not applicable to other units), *Help*, and *Exit*.

To make currency conversion you must first set the exchange rate. See "Setting a base currency and exchange rates" on page 87.

- 1 Scroll to the *Type* field and press to open a list of measures.
Scroll to the measure you want to use and press **OK**.
- 2 Scroll to the first *Unit* field and press to open a list of available units.
Select the unit **from** which you want to convert and press **OK**.
- 3 Scroll to the next *Unit* field and select the unit **to** which you want to convert.
- 4 Scroll to the first *Amount* field and key in the value you want to convert.
The other *Amount* field changes automatically to show the converted value.

Press to add a decimal and press for the +, - (for temperature), and E (exponent) symbols.

The conversion order changes if you write a value in the second *Amount* field.
The result is shown in the first *Amount* field.

Setting a base currency and exchange rates

Before you can make currency conversions, you need to choose a base currency (usually your domestic currency) and add exchange rates.

The rate of the base currency is always 1. The base currency determines the conversion rates of the other currencies.

- 1 Select *Currency* as the measure type and select **Options**→ *Currency rates*. A list of currencies opens and you can see the current base currency at the top.
- 2 To change the base currency, scroll to the currency (usually your domestic currency), and select **Options**→ *Set as base curr.*



Important: When you change the base currency, all previously set exchange rates are set to **0** and you need to key in new rates.

- 3 Add exchange rates, scroll to the currency, and key in a new rate, that is, how many units of the currency equal one unit of the base currency you have selected.
- 4 After you have inserted all the needed exchange rates, you can make currency conversions. See "Converting units" on page 87.

• NOTES

➡ Go to **Menu**→ **Extras**→ **Notes**.



You can link notes to Go to and send them to other devices. Plain text files (TXT format) you receive can be saved to Notes.

- Press - to start to write. Press to clear letters. Press **Done** to save.

• CLOCK

➡ Go to **Menu**→ **Extras**→ **Clock**.



Changing clock settings

Options in Clock: *Set alarm*, *Reset alarm*, *Remove alarm*, *Settings*, *Help*, and *Exit*.

- To change the time or date, select **Options**→ *Settings* in Clock.

Setting an alarm

- 1 To set a new alarm, select **Options**→ *Set alarm*.
 - 2 Enter the alarm time and press **OK**. When the alarm is active, the indicator is shown.
- To cancel an alarm, go to clock and select **Options**→ *Remove alarm*.

Turning off the alarm

- Press **Stop** to turn off the alarm.
- Press any key or **Snooze** to stop the alarm for five minutes, after which it will resume. You can do this a maximum of five times.

If the alarm time is reached while the phone is switched off, the phone switches itself on and starts sounding the alarm tone. If you press **Stop**, the phone asks whether you want to activate the phone for calls. Press **No** to switch off the phone or **Yes** to make and receive calls.



Note: Do not press **Yes** when wireless phone use is prohibited or when it may cause interference or danger.

PERSONALIZING THE ALARM TONE

- 1 To personalize the alarm tone, select **Options**→ *Settings*.
- 2 Scroll to *Clock alarm tone* and press .
- 3 When you scroll through the list of tones, you can stop on a tone to listen to it before you make your selection. Press **Select** to select the current tone.

RECORDER

 Go to **Menu**→ **Extras**→ **Recorder**.



The voice recorder allows you to record telephone conversations and voice memos. If you are recording a telephone conversation, both parties will hear a tone every five seconds during recording.

Recorded files are stored in the Gallery. See "Gallery" on page 38.

 Options in Recorder: *Record sound clip*, *Delete*, *Rename sound clip*, *Send*, *Go to Gallery*, *Settings*, *Add to 'Go to'*, *Help*, and *Exit*.

- Select **Options**→ *Record sound clip* and scroll to a function and press  to select it. Use:  - to record,  - to pause,  - to stop,  - to fast forward,  - to fast rewind, or  - to play an opened sound file.

GAMES

 Go to **Menu**→ **Games**.

- To start a game, scroll to the game icon and press . For instructions on how to play the game, press **Options**→ *Help*.

MEMORY CARD

For details on inserting a memory card into the phone, see the Getting Started guide.

Details of how you can use the memory card with other features and applications of your phone are given in the sections describing these features and applications.



 Options in the memory card: *Backup phone mem.*, *Restore from card*, *Format mem. card*, *Memory card name*, *Set password*, *Change password*, *Remove password*, *Unlock memory card*, *Memory details*, *Help*, and *Exit*.

If you have a memory card, you can use it to store your multimedia files such as video clips and sound files, photos, messaging data, and to backup information from your phone's memory.



Important: Keep all memory cards out of the reach of small children.



Note: Use only compatible Multimedia cards (MMC) with this device. Other memory cards, such as Secure Digital (SD) cards, do not fit in the MMC card slot and are not compatible with this device. Using an incompatible memory card may damage the memory card as well as the device, and data stored on the incompatible card may be corrupted.

Format memory card



Important: All data stored on the memory card will be permanently deleted when you format it.

You must format a new memory card before you can use it for the first time.

- Select **Options**→ *Format mem. card*.

You will be asked to confirm your request and once you confirm, formatting starts.

Backing up and restoring information

To back up information from your phone's memory to the memory card, select **Options**→ *Backup phone mem.*

To restore information from the memory card to the phone's memory, select **Options**→ *Restore from card*.



Note: You can only backup the phone memory and restore it to the same model of phone.

Memory card password

To set a password to lock your memory card against unauthorized use, select **Options**→ *Set password*.

You will be asked to enter and confirm your password. The password can be up to eight characters long.

The password is stored in your phone and you don't have to enter it again while you are using the memory card on the same phone. If you want to use the memory card on another phone, you will be asked for the password.

UNLOCKING A MEMORY CARD

If you insert another password protected memory card in your phone, you will be prompted to enter the password of the card. To unlock the card:

- Select **Options**→ *Unlock memory card*.

Once the password is removed, the memory card is unlocked and can be used on another phone without a password.

Checking memory consumption

You can check the memory consumption of different data groups and the available memory for installing new applications or software on your memory card:

- Select **Options**→ *Memory details*.

10 Services and Applications

• SERVICES (MOBILE BROWSER)

➡ Go to **Menu** → **Services** or press and hold  in standby mode.



Various service providers maintain pages specifically designed for mobile phones, offering services that can be, for example, news, weather reports, banking, travel information, entertainment, and games. With the mobile browser you can view these services as WAP pages written in WML, XHTML pages written in XHTML, or a mixture of both.



Note: Check the availability of services, pricing, and fees with your service provider. Service providers will also give you instructions on how to use their services.

Basic steps for accessing

- Save the settings that are needed to access the browser service that you want to use. See "Setting up the phone for the browser service" on page 91.
- Make a connection to the service. See "Making a connection" on page 92.
- Start browsing the web pages. See "Browsing" on page 93.
- End the connection to the service. See "Ending a connection" on page 96.



Setting up the phone for the browser service

RECEIVING SETTINGS IN A SMART MESSAGE

You may receive service settings in a special text message, a so-called smart message, from the service provider that offers the service. For more information, contact your service provider, or visit Nokiausa.com (www.nokiausa.com).

Settings may be available, for example, on the website of a service provider.

KEYING IN THE SETTINGS MANUALLY

Follow the instructions given to you by your service provider.

- 1 Go to **Settings**→ **Connection settings**→ **Access points** and define the settings for an access point. See "Connection settings" on page 66.
- 2 Go to **Services**→ **Options**→ **Bookmark manager**→ **Add bookmark**. Write a name for the bookmark and the address of the browser page defined for the current access point.

Making a connection

Once you have stored all the required connection settings, you can access browser pages.

There are three different ways to access browser pages:

- Select the homepage () of your service provider,
- Select a bookmark from the Bookmarks view, or
- Press the keys  -  to start to write the address of a browser service. The Go to field at the bottom of the display is immediately activated and you can continue writing the address there.

After you have selected a page or written the address, press  to start to download the page. See "Data connection indicators" on page 9.

Viewing bookmarks



Note: Your phone may have some pre-installed bookmarks for sites not affiliated with Nokia. Nokia does not warrant or endorse these sites. If you choose to access them, you should take the same precautions, for security or content, as you would with any site.

In the Bookmarks view, you can see bookmarks pointing to different kinds of browser pages. Bookmarks are indicated by the following icons:



- The starting page defined for the browser access point. If you use another browser access point for browsing, the starting page is changed accordingly.



- A bookmark showing the title.

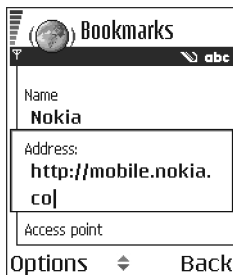
When you scroll through bookmarks, you can see the address of the highlighted bookmark in the Go to field at the bottom of the display.



Options in the Bookmarks view (when a bookmark or folder is selected): *Open, Download, Back to page, Bookmark manager, Mark/Unmark, Navigation options, Advanced options, Send, Find bookmark, Details, Settings, Help, and Exit.*

ADDING BOOKMARKS MANUALLY

- 1 In the Bookmarks view, select **Options**→**Bookmark manager**→**Add bookmark**.
- 2 Start to fill in the fields. Only the address must be defined. The default access point is assigned to the bookmark if no other one is selected. Press to enter special characters such as /, ., :, and @. Press to clear characters.
- 3 Select **Options**→**Save** to save the bookmark.



Browsing

On a browser page, new links appear underlined in blue and previously visited links in purple. Images that act as links have a blue border around them.

Options when browsing: *Open, Service options, Bookmarks, Save as bookmark, View image, Navigation options, Advanced options, Send bookmark, Find, Details, Settings, Help, and Exit.*

KEYS AND COMMANDS USED IN BROWSING

- To open a link, press .
- To scroll the view, use the joystick.
- To enter letters and numbers in a field, press the keys - . Press to enter special characters such as /, ., :, and @. Press to clear characters.
- To go to the previous page while browsing, press **Back**. If **Back** is not available, select **Options**→**Navigation options**→**History** to view a chronological list of the pages you have visited during a browsing session. The history list is cleared each time a session is closed.
- To check boxes and make selections, press .
- To retrieve the latest content from the server, select **Options**→**Navigation options**→**Reload**.
- To open a sublist of commands or actions for the currently open browser page, select **Options**→**Service options**.
- Select **Options**→**Advanced options**→**Disconnect** to disconnect from a browser service and to quit browsing.



SAVING BOOKMARKS

- To save a bookmark while browsing, select **Options**→ *Save as bookmark*.
- To save a bookmark received in a smart message, open the message in the Inbox in Messaging and select **Options**→ *Save to bookmarks*.

VIEWING SAVED PAGES

Options in the Saved pages view: *Open, Back to page, Reload, Saved pages manager, Mark/Unmark, Navigation options, Advanced options, Details, Settings, Help, and Exit.*

If you regularly browse pages containing information which doesn't change very often, you can save and then browse them when offline.

- To save a page, while browsing select **Options**→ *Advanced options*→ *Save page*.

Saved pages are indicated by the following icon:



- The saved browser page.

In the saved pages view you can also create folders to store your saved browser pages.

Folders are indicated by the following icon:



- Folder containing saved browser pages.

- To open the Saved pages view, press  in the Bookmarks view. In the Saved pages view, press  to open a saved page.

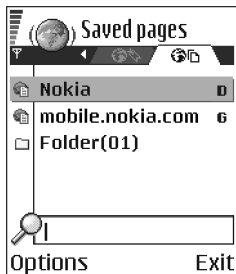
To start a connection to the browser service and to retrieve the page again, select **Options**→ *Navigation options*→ *Reload*.

The phone stays online after you reload the page.

Downloading

You can download items such as ringing tones, images, operator logos, software, and video clips through the mobile browser. These items can be provided free or you can purchase them.

Once downloaded, items are handled by the respective applications on your phone, for example a downloaded photo will be saved in the Gallery.





Note: Only install software from sources that offer adequate protection against viruses and other harmful software.

The information or services you have accessed are stored in the cache memory of the phone. A cache is a buffer memory that is used to store data temporarily. If you have tried to access or have accessed confidential information requiring passwords (for example, your bank account), empty the cache of your phone after each use. To empty the cache, select **Options**→ *Navigation options*→ *Clear cache*.

PURCHASING AN ITEM

To download the item:

- 1 Scroll to the link and select **Options**→ *Open*.
- 2 Choose the appropriate option to purchase the item, for example, Buy.

Carefully read all the information provided.

If the online content is compatible, you can use your wallet information to make the purchase:

- 1 Select *Open wallet*. You will be prompted for your wallet code. See "Entering the wallet code" on page 83.
- 2 Select the appropriate card category from your wallet.
- 3 Select *Fill in*. This will upload the selected wallet information.

If the wallet does not contain all information necessary for the purchase, you will be requested to enter the remaining details manually.



Note: Copyright protections may prevent some images, ringtones and other content from being copied, modified, transferred, or forwarded.

CHECKING AN ITEM BEFORE DOWNLOADING

You can see details about an item before you download it. Details about an item may include the price, a brief description and size.

- Scroll to the link and select **Options**→ *Open*.
Details about the item are displayed on your phone.
- If you want to continue with the downloading, press *Accept*, or if you want to cancel the download, press *Cancel*.



Ending a connection

- Select **Options**→ *Advanced options*→ *Disconnect*, or
- Press and hold  to quit browsing and to return to standby mode.

Browser settings

Select **Options**→ *Settings*:

- *Default access point* - If you want to change the default access point, press  to open a list of available access points. The current default access point is highlighted. See "Connection settings" on page 66.
- *Show images* - Choose if you want to view pictures when you are browsing. If you choose *No*, you can later load images during browsing by selecting **Options**→ *Show images*.
- *Text wrapping* - Choose *Off* if you don't want the text in a paragraph to automatically wrap, or *On* if you do. If text is not wrapped, the ends of lines may be truncated.
- *Font size* - You can choose five text sizes in the browser: *Smallest*, *Small*, *Normal*, *Large*, and *Largest*.
- *Default encoding* - To make sure your browser pages display text characters correctly, select the appropriate language type.
- *Cookies* - *Allow* / *Reject*. You can enable or disable the receiving and sending of cookies (a means of content providers to identify users and their preferences for frequently used content).
- *Confirm touch tones* - *Always* / *First sending only*. Choose whether you want to confirm before the phone sends touch tones during a voice call. See "Options during a call" on page 18. For example, you can make a voice call while you are viewing a browser page, send touch tones while a voice call is in progress, and save in Contacts a name and phone number from a browser page.
- *Wallet* - Choose *On* if want the wallet to open automatically when a compatible browser page is opened.

• APPLICATION MANAGER

 Go to **Menu**→ *App. manager*.



In Application manager you can install new Symbian operating system applications (SIS files) and Java™ applications (Java MIDlets and MIDlet suites). You can also update and uninstall applications from the phone, and monitor the installation history.

Applications in Application manager use shared memory. See "Shared memory" on page 3.

Options in the Application manager main view: *Install, View details, View certificate, Update, Go to web address, Remove, View log, Send log, Settings, App. downloads, Help, and Exit.*

When you open Application manager, you can see a list of:

- applications saved in Application manager,
- partially installed applications (indicated by ) , and
- fully installed applications that you can remove (indicated by ) .



Note: You can only use Symbian operating system applications with a .SIS extension. Your phone supports J2ME™ Java applications. Do not download PersonalJava™ applications to your phone as they cannot be installed.



Installing applications – general information

You can install applications that are specifically intended for this phone and suitable for the Symbian operating system.



Note: If you install an application that is not intended specifically for this phone, it may function and look different from what was originally intended.

Applications may be downloaded to your phone during browsing, received as attachments in multimedia messages or e-mails, or received via Bluetooth or via infrared from another device, for example a phone or a compatible PC. If you are using PC Suite to transfer the application, place it in the Installs folder in the File manager.



Important: Only install applications from sources that offer adequate protection against viruses and other harmful software.

To increase protection, the application installation system uses digital signatures and certificates for applications. Do not install the application if Application manager gives a security warning during installation.



Important: If you install an application that contains an update or repair to an existing application, you can only restore the original application if you have the original application or a full back-up copy of the removed application. To restore the original application, first remove the updated or repaired application and then install again from the original application or the back-up copy.

During installation, the phone checks the integrity of the application to be installed. The phone shows information about the checks being carried out and you are given options whether to continue or cancel the installation. Once the phone has checked the integrity of the application, it is installed on your phone.

INSTALLING APPLICATIONS

- Open Application manager, scroll to the application, and select **Options**→**Install** to start the installation.
- Alternatively, search the phone memory or the memory card, select the application, and press  to start the installation.

Some applications may give the option of partial installation allowing you to select the particular components of an application that you want to install.

If you are installing an application without a digital signature or a certificate, the phone warns you of the risks. Continue installation only if you are absolutely sure of the origin and contents of the application.

INSTALLING JAVA™

The .JAR file is required for installation. If it is missing, the phone may ask you to download it. If there is no access point defined for Application manager, you will be asked to select one. When you are downloading the .JAR file, you may need to enter a user name and password to access the server. You obtain these from the supplier or manufacturer of the application.

- To start a data connection and to view extra information about the application, scroll to it and select **Options**→**Go to web address**.
- To start a data connection and to check if there is an update available for the application, scroll to it and select **Options**→**Update**.

Java settings

- To change the default access point that a Java application uses for downloading extra data, select **Options**→**Settings**→**Access point**. See "Access points" on page 68.
- To change the security settings that determine the actions that a Java application is permitted to do, select **Options**→**Settings**.

Removing an application

- 1 To remove an application, scroll to it and select **Options**→**Remove**.
- 2 Press **Yes** to confirm the removal.



Important: If you remove an application, you can only re-install it if you have the original application or a full backup of the removed application. If you remove an application, you may no longer be able to open documents created with that application. If another application depends on the application that you removed, the other application may stop working. Refer to the documentation of the installed application for details.

11 Connectivity

• BLUETOOTH CONNECTION

➡ Go to **Menu**→ **Connectivity**→ **Bluetooth**.

You can transfer data from your phone to another compatible device, for example, a phone, a headset, using Bluetooth technology, or a computer, via Bluetooth or infrared.

This phone is designed to be compliant with and to adopt Bluetooth Specification 1.1. However, interoperability between the phone and other products with Bluetooth wireless technology depends also on the profiles and protocols used. The Nokia 6600 phone supports the following profiles:

- Dial-up networking profile (DUN) as a gateway
- Fax profile (FAX) as a gateway
- Object push profile (OPP) as a client and server
- File transfer profile (FTP) as a server
- Hands-free profile (HFP) as an audio gateway
- Generic object exchange profile (GOEP)
- Generic access profile (GAP)
- Serial port profile (SPP) with the PC connectivity software

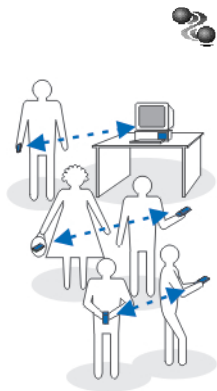
For more information on the compatibility between Bluetooth devices, consult their manufacturers.

Bluetooth technology enables cost-free wireless connections between electronic devices within a maximum range of 33 feet (10 meters). A Bluetooth connection can be used to send images, videos, texts, business cards, calendar notes, or to connect wirelessly to devices using Bluetooth technology, such as computers.

Since devices using Bluetooth technology communicate using radio waves, your phone and the other devices do not need to be in direct line-of-sight.

The two devices only need to be within a maximum of 33 feet (10 meters) of each other, although the connection can be subject to interference from obstructions such as walls or from other electronic devices.

Using Bluetooth technology consumes the battery and the phone's operating time will be reduced. Take this into account when performing other operations with your phone.



There may be restrictions on using devices using Bluetooth technology. Check with your local authorities.

Activating Bluetooth application for the first time

When you activate Bluetooth for the first time, you are asked to give a name to your phone.

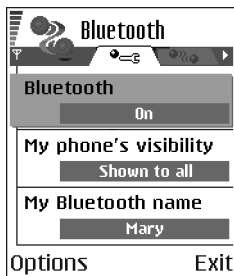
After you have set Bluetooth to be active and changed *My phone's visibility* to *Shown to all*, your phone and this name can be seen by other users with devices using Bluetooth technology.

- Write a name (max. 30 letters). If you send data via a Bluetooth connection before you have given an individual name to your phone, the default name will be used.

Bluetooth settings

To modify Bluetooth settings, scroll to the setting you want to change and press .

- *Bluetooth* - Select *On* if you want to use Bluetooth. If you select *Off*, all active Bluetooth connections are ended, and Bluetooth cannot be used for sending or receiving data.
- *My phone's visibility* - If you select *Shown to all*, your phone can be found by other devices during device search. If you select *Hidden*, your phone cannot be found by other devices during device search.
- *My phone's name* - Define a name for your phone. After you have set Bluetooth to be active and changed *My phone's visibility* to *Shown to all*, this name can be seen by other devices.



Sending data via Bluetooth

There can be only one active Bluetooth connection at a time.

- 1 Open an application where the item you wish to send is stored. For example, to send a photo to another device, open the Gallery application.
- 2 Scroll to the item you want to send and select **Options**→*Send*→*Via Bluetooth*.

- 3 The phone starts to search for devices within range. Devices using Bluetooth technology that are within range start to appear on the display one by one. You can see a device icon, the device's name, the device type, or a short name. Paired devices are shown with . A paired device is one where a Bluetooth connection already exists between your phone and the other device.

- To interrupt the search, press **Stop**. The device list freezes and you can start to form a connection to one of the devices already found.



When searching for devices, some devices may show only the unique device addresses. To find out the unique address of your phone, enter the code ***#2820#** in standby mode. If you have searched for devices earlier, a list of the devices that were found previously is shown first. To start a new search, select [More devices](#). If you switch off the phone, the list of devices is cleared and the device search needs to be started again before sending data.

- 4 Scroll to the device you want to connect with and press **Select**. The item you are sending is copied to Outbox and the note [Connecting](#) is shown.
- 5 **Pairing (if not required by the other device, go to step 6).**
- If the other device requires pairing before data can be transmitted, a tone sounds and you are asked to enter a passcode.
 - Create your own passcode (1-16 characters long, numeric) and agree with the owner of the other device to use the same code. This passcode is used only once and you do not have to memorize it.
 - After pairing, the device is saved to the Paired devices view.
- 6 When the connection has been successfully established, the note [Sending data](#) is shown.

Data received via Bluetooth can be found in the Inbox folder in Messaging. See "Inbox - receiving messages" on page 51.

Pairing means authentication. The users of the devices using Bluetooth technology should agree together what the passcode is, and use the same passcode for both devices in order to pair them. Devices that do not have a user interface have a preset passcode.

Icons for different devices:

 - *Computer*,  - *Phone*,  - *Audio/video*, and  - *Bluetooth device*.



Note: If sending fails, the message or data will be deleted. The Drafts folder in Messaging does not store messages sent via Bluetooth.

CHECKING THE STATUS OF THE BLUETOOTH CONNECTION

- When  is shown in standby mode, Bluetooth is active.
- When  is blinking, your phone is trying to connect to the other device.
- When  is shown continuously, the Bluetooth connection is active.

Paired devices view

Pairing with a device makes device searches easier and quicker. Paired devices are easier to recognize, they are indicated by  in the search result list. In the Bluetooth main view, press  to open a list of paired devices (.

 Options in the paired devices view: *New paired device*, *Connect* / *Disconnect*, *Assign short name*, *Set as authorized* / *Set as unauthorized*, *Delete*, *Delete all*, *Help*, and *Exit*.

PAIRING WITH A DEVICE

- 1 Select **Options**→ *New paired device* in the Paired devices view. The phone starts to search for devices within range. Or, if you have searched for devices earlier, a list of the devices that were found previously is shown first. To start a new search, select **More devices**.
- 2 Scroll to the device you want to pair with and press **Select**.
- 3 Exchange passcodes, see step 5. (Pairing) in the previous section. The device is added to the Paired devices list.

CANCELING PAIRING

- In the Paired devices view, scroll to the device whose pairing you want to cancel and press  or select **Options**→ *Delete*. The device is removed from the Paired devices list and the pairing is canceled.
- If you want to cancel all pairings, select **Options**→ *Delete all*.



Note: If you are currently connected to a device, and delete the pairing with that device, the pairing is removed and the device connection is terminated, but the Bluetooth connection remains active.

SETTING A DEVICE TO BE AUTHORIZED OR UNAUTHORIZED

After you have paired with a device, you can set it to be authorized or unauthorized:

Unauthorized (default) - Connection requests from this device need to be accepted separately every time.

Authorized - Connections between your phone and this device can be made without your knowledge. No separate acceptance or authorization is needed. Use this status for your own devices, for example, your PC, or devices that belong to someone you trust. The icon  is added next to authorized devices in the Paired devices view.



- In the Paired devices view, scroll to the device and select **Options**→ *Set as authorized* / *Set as unauthorized*.

Receiving data via Bluetooth

When you receive data via Bluetooth, a tone sound is played and you are asked if you want to accept the message. If you accept, the item is placed in the Inbox folder in Messaging. Messages received via Bluetooth are indicated by . See "Inbox - receiving messages" on page 51.

Closing the Bluetooth connection

A Bluetooth connection is disconnected automatically after sending or receiving data.

• INFRARED CONNECTION

➡ Go to **Menu**→ **Connectivity**→ **Infrared**.



Via infrared, you can send or receive data such as business cards and calendar notes to and from a compatible phone or data device.

Do not point the IR (infrared) beam at anyone's eye or allow it to interfere with other IR devices. This device is a Class 1 Laser product.

Sending and receiving data via infrared

All items which are received via infrared are placed in the Inbox folder in Messaging. New infrared messages are indicated by . See "Inbox - receiving messages" on page 51.

- 1 Make sure that the infrared ports of the sending and receiving devices are pointing at each other and that there are no obstructions between the devices. The preferable distance between the two devices is one meter at most. To find the infrared port, see the Keys and parts section in the Getting Started guide.

- 2 The user of the receiving device activates the infrared port.

To activate the infrared port of your phone to receive data via infrared, go to **Menu**→**Connectivity**→**Infrared** and press .

- 3 The user of the sending device selects the desired infrared function to start data transfer.

To send data via infrared, select **Options**→**Send**→**via infrared** in an application.

If data transfer is not started within one minute after the activation of the infrared port, the connection is canceled and must be started again.



Note: Windows 2000: To be able to use infrared to transfer files between your phone and a compatible computer, go to Control Panel and select Wireless Link. In the Wireless Link File Transfer tab check the Allow others to send files to your computer using infrared.

CHECKING THE STATUS OF THE INFRARED CONNECTION

- When  blinks, your phone is trying to connect to the other device or a connection has been lost.
- When  is shown continuously, the infrared connection is active and your phone is ready to send and receive data via its infrared port.

• CONNECTION MANAGER

Go to **Menu**→**Connectivity**→**Connection manager**

In Connection manager you can identify the status of multiple data connections, view details on the amount of data sent and received, for example, and end unused connections.



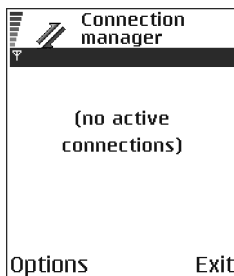
Note: You can view details of data connections only. Voice calls are not listed.

When you open Connection manager, you can see a list of:

- open data connections,  - *Data call*,  - *High sp. GSM*,  - *GPRS*
- the status of each connection, or
- amount of data uploaded and downloaded for each connection (GPRS connections only), or
- the duration of each connection (GSM and high-speed data connections only).



Note: The actual time invoiced for calls by your service provider may vary, depending upon network features, rounding-off for billing, and so forth.



Options in the Connection manager main view when there are one or more connections: *Details*, *Disconnect*, *Disconnect all*, *Help* and *Exit*.

Viewing connection details

To view the details of a connection, scroll to a connection and select **Options**→*Details* The following is displayed:

Name – the name of the Internet access point (IAP) in use, or 'Modem connection' if the connection is a dial-up connection.

Bearer – the type of data connection: *Data call*, *High sp. GSM*, or *GPRS*.

Status – the current status of the connection.

Received – the amount of data, in bytes, received to the phone.

Sent – the amount of data, in bytes, sent from the phone.

Duration – the length of time that the connection has been open.

Speed – the current speed of both sending and receiving data in kB/s (kilobytes per second).

Dial-up (GSM) – the dial-up number used, or *Name* (GPRS) – access point name used.

Shared (not displayed if the connection is not shared) – the number of applications using the same connection.

Ending connections

- Scroll to a connection and select **Options**→ *Disconnect* to end that connection only, or
- Select **Options**→ *Disconnect all* to close all currently open connections.

• CONNECTING YOUR PHONE TO A COMPATIBLE COMPUTER

For further information on how to make a connection to a compatible computer via infrared or Bluetooth, and how to install PC Suite, see the Installation Guide for PC Suite on the CD-ROM in the 'Install software' section. For further information on how to use PC Suite, see the help function on PC suite.

Using the CD-ROM

The CD-ROM should launch itself after you have inserted it into the CD-ROM drive of your compatible PC. If not, proceed as follows:

- 1 Click the Window Start button and select Programs→ Windows Explorer.
- 2 On the CD-ROM drive, locate a file called setup.exe and double-click it. The CD-ROM interface opens.

- 3 You can find PC Suite in the 'Install' section. Double-click 'PC Suite for Nokia 6600'. The installation wizard will guide you through the installation process.

Using your phone as a modem

Use your phone as a modem to connect to the Internet with a compatible PC, or to send and receive faxes.



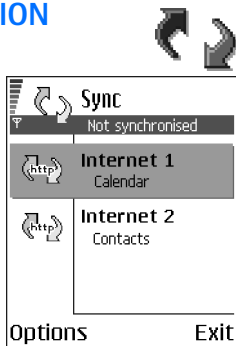
Detailed installation instructions can be found in Quick guide for Modem Options for Nokia 6600 on the CD-ROM supplied with the phone.

• SYNC – REMOTE SYNCHRONIZATION

➡ Go to **Menu**→ **Connectivity**→ **Sync**.

The Sync application enables you to synchronize your calendar or contacts with various calendar and address book applications on a compatible computer or on the Internet. Synchronization takes place over a GSM data call or packet data connection.

The synchronization application uses SyncML technology for synchronization. For information on SyncML compatibility, please contact the supplier of the calendar or address book application you want to synchronize your phone data with.



Creating a new synchronization profile

Options in the Remote sync main view: *Synchronize*, *New sync profile*, *Edit sync profile*, *Delete*, *View log*, *Help*, and *Exit*.

- 1 If no profiles have been defined, the phone asks you if you want to create a new profile. Select **Yes**.

To create a new profile in addition to existing ones, select **Options**→ *New sync profile*. Choose whether you want to use the default setting values or copy the values from an existing profile to be used as the basis for the new profile.

- 2 Define the following:

Sync profile name – Write a descriptive name for the profile.

Access point – Select an access point you want to use for the data connection.

Host address – Contact your service provider or system administrator for the correct values.

Port – Contact your service provider or system administrator for the correct values.

User name – Your user ID for the synchronization server. Contact your service provider or system administrator for your correct ID.

Password – Write your password. Contact your service provider or system administrator for the correct value.

To choose the items that you want to synchronize, press  and select **Yes** in the appropriate fields.

- 3 Press **Done** to save the settings.

Synchronizing data

In the Sync main view, you can see the different profiles, and what kind of data will be synchronized: Calendar, Contacts, or both.

- 1 In the main view, scroll to a profile and select **Options**→ **Synchronize**. The status of the synchronization is shown at the bottom of the screen.

To cancel synchronization before it is finished, press **Cancel**.

- 2 You are notified when the synchronization has been completed.

- After synchronization is complete, select **Options**→ **View log** to open a log file showing the synchronization status (**Complete** or **Incomplete**) and how many calendar or contact entries have been added, updated, deleted, or discarded (not synchronized) in the phone or on the server.

12 Troubleshooting

Memory low

When one of the following notes is shown, the phone memory is low and you must delete some data: **Not enough memory to perform operation. Delete some data first.** or **Memory low. Delete some data.** To view what kind of data you have and how much memory the different data groups consume, go to **File manager** and select **Options**→ **Memory details**.

You may want to delete the following items regularly to avoid memory getting low:

- messages from the Inbox, Drafts, and Sent folders in Messaging,
- retrieved e-mail messages from the phone memory,
- saved browser pages, and
- images, video clips and sound clips in the Gallery.

If you want to delete contact information, calendar notes, call timers, call cost timers, game scores, or any other data, go to the respective application to remove the data.

If you are deleting multiple items and one of the following notes is shown again: **Not enough memory to perform operation. Delete some data first.** or **Memory low. Delete some data.**, try deleting items one by one (starting from the smallest item).

Clearing calendar memory - To remove more than one event at a time, go to the Month view and select **Options**→ **Delete entry**→ and either:

- **Before date** - to delete all calendar notes which take place before a certain date. Enter the date before which all calendar notes will be deleted, or
- **All entries** - to delete all calendar notes.

Erasing log information - To erase all the log contents, Recent calls log, and Messaging delivery reports permanently, go to Logs, press , and select **Options**→ **Clear log** or go to **Settings**→ **Log duration**→ **No log**.

Different ways to store data:

- Use PC Suite to take a backup copy of all data to your computer. See "Connecting your phone to a compatible computer" on page 105.
- Send images to your e-mail address and then save the images to your computer (network service).
- Send data via infrared or Bluetooth to another compatible device.
- Store data on a compatible memory card.

• Q&A

Phone display

- Q. Why do missing, discolored, or bright dots appear on the screen every time I turn on my phone?**
- A. This is a characteristic of this type of display. Some displays may contain pixels or dots that remain on or off. This is normal, not a fault.

Camera

- Q. Why do images look smudgy?**
- A. Check that the camera lens protection window is clean. See “Care and Maintenance” on page 113.
- Q. Why are there random colored dots in display when the phone is in Night mode?**
- A. When increasing the sensitivity and luminosity of the camera in Night mode which increases the clarity of pictures, it also increases colored dots in the display.

Bluetooth

- Q. Why can't I end a Bluetooth connection?**
- A. If another device is pairing with your phone but not sending data, and leaves the device connection open, then the only way to disconnect it is to deactivate the Bluetooth link altogether. Go to Bluetooth and select the setting **Bluetooth**→ **Off**.
- Q. Why can't I find a device using Bluetooth technology.**
- A. Check that both have activated Bluetooth.
- Check that the distance between the two devices is not over 33 feet (10 meters) or that there are no walls or other obstructions between the devices.
- Check that the other device is not in 'Hidden' mode.
- Check that both devices are compatible.

Multimedia messaging

- Q. What should I do when the phone tells me that it cannot receive a multimedia message because memory is full?**
- A. The amount of memory needed is indicated in the error message: **Not enough memory to retrieve message. Delete some data first**. To view what kind of data you have and how much memory the different data groups consume, go to **File manager** and select **Options**→ **Memory details**.

Q. How can I end the data connection when the phone starts a data connection again and again?

- A. The phone is trying to retrieve a multimedia message from the multimedia messaging center.

Check that the settings for multimedia messaging have been defined correctly and that there are no mistakes in phone numbers or addresses. Go to **Messaging** and select **Options**→**Settings**→**Multimedia message**.

To stop the phone from making a data connection, you have the following options. Go to **Messaging** and select **Options**→**Settings**→**Multimedia message**, and then:

- Select **On receiving msg.**→**Defer retrieval** if you want the multimedia messaging center to save the message to be retrieved later, for example, after you have checked the settings. After this change, the phone still needs to send information notes to the network. When you want to retrieve the message, select **Retr. immediately**.
- Select **On receiving msg.**→**Reject message** - if you want to decline all incoming multimedia messages. After this change, the phone needs to send information notes to the network and the multimedia messaging center will delete all multimedia messages that are waiting to be sent to you.
- Select **Multimedia reception**→**Off** - if you want to ignore all incoming multimedia messages. After this change the phone will not make any network connections related to multimedia messaging.

Messaging

Q. Why can't I select a contact?

- A. If you cannot select a contact in the Contacts directory, the contact card does not have a phone number or an e-mail address. Add the missing information to the contact card in the Contacts application.

Calendar

Q. Why are the week numbers missing?

- A. If you have changed the Calendar settings so that the week starts on a day other than Monday, then the week numbers will not be shown.

Browser services

Q. What should I do if my phone displays: No valid access point defined. Define one in Services settings.

- A. Insert the proper browser settings. Contact your service provider for instructions. See "Setting up the phone for the browser service" on page 91.

Log

Q. Why does the log appear empty?

- A. You may have activated a filter, and no communication events fitting that filter have been logged. To see all events, select **Options**→**Filter**→**All communication**.

PC connectivity

Q. Why do I have problems in connecting the phone to my PC?

- A. Make sure that PC Suite is installed and running on your PC. See the Installation guide for PC Suite on the CD-ROM in the 'Install' section. For further information on how to use PC Suite, see the help function of PC suite.

Access codes

Q. What is my password for the lock code, PIN code, or PUK code?

- A. The default lock code is **12345**. If you forget or lose the lock code, contact your phone dealer.

If you forget or lose a PIN or PUK code, or if you have not received such a code, contact your service provider.

For information about passwords, contact your access point provider, for example, a commercial Internet service provider (ISP), service provider.

Application not responding

Q. How do I close an application that is not responding?

- A. Open the application switching window by pressing and holding . Then scroll to the application, and press  to close the application.

13 Reference Information

• BATTERY INFORMATION

Charging and discharging

Your device is powered by a rechargeable battery. The full performance of a new battery is achieved only after two or three complete charge and discharge cycles. The battery can be charged and discharged hundreds of times but it will eventually wear out. When the talk and standby times are noticeably shorter than normal, buy a new battery. Use only Nokia approved batteries, and recharge your battery only with Nokia approved chargers designated for this device.

Unplug the charger from the electrical plug and the device when not in use. Do not leave the battery connected to a charger. Overcharging may shorten its lifetime. If left unused, a fully charged battery will lose its charge over time. Temperature extremes can affect the ability of your battery to charge.

Use the battery only for its intended purpose. Never use any charger or battery that is damaged.

Do not short-circuit the battery. Accidental short-circuiting can occur when a metallic object such as a coin, clip, or pen causes direct connection of the positive (+) and negative (-) terminals of the battery. (These look like metal strips on the battery.) This might happen, for example, when you carry a spare battery in your pocket or purse. Short-circuiting the terminals may damage the battery or the connecting object.

Leaving the battery in hot or cold places, such as in a closed car in summer or winter conditions, will reduce the capacity and lifetime of the battery. Always try to keep the battery between 59°F and 77°F (15°C and 25°C). A device with a hot or cold battery may not work temporarily, even when the battery is fully charged. Battery performance is particularly limited in temperatures well below freezing.

Do not dispose of batteries in a fire! Dispose of batteries according to local regulations. Please recycle when possible. Do not dispose as household waste.

• ENHANCEMENTS

A few practical rules about accessories and enhancements:

- Keep all accessories and enhancements out of the reach of small children.
- When you disconnect the power cord of any accessory or enhancement, grasp and pull the plug, not the cord.
- Check regularly that enhancements installed in a vehicle are mounted and are operating properly.
- Installation of any complex car enhancements must be made by qualified personnel only.

• ENHANCEMENTS, BATTERIES, AND CHARGERS

Check the model number of any charger before use with this device. This device is intended for use when supplied with power from the ACP-12 charger.



Warning: Use only batteries, chargers, and enhancements approved by Nokia for use with this particular model. The use of any other types may invalidate any approval or warranty, and may be dangerous.

For availability of approved enhancements, please check with your dealer. When you disconnect the power cord of any enhancement, grasp and pull the plug, not the cord.

Your device and its enhancements may contain small parts. Keep them out of reach of small children.

• CARE AND MAINTENANCE

Your device is a product of superior design and craftsmanship and should be treated with care. The suggestions below will help you protect your warranty coverage and enjoy your device for many years.

- Keep the device dry. Precipitation, humidity, and all types of liquids or moisture can contain minerals that will corrode electronic circuits. If your device does get wet, remove the battery and allow the device to dry completely before replacing it.
- Do not use or store the device in dusty, dirty areas. Its moving parts and electronic components can be damaged.
- Do not store the device in hot areas. High temperatures can shorten the life of electronic devices, damage batteries, and warp or melt certain plastics.
- Do not store the device in cold areas. When the device returns to its normal temperature, moisture can form inside the device and damage electronic circuit boards.

- Do not attempt to open the device other than as instructed in this guide.
- Do not drop, knock, or shake the device. Rough handling can break internal circuit boards and fine mechanics.
- Do not use harsh chemicals, cleaning solvents, or strong detergents to clean the device.
- Do not paint the device. Paint can clog the moving parts and prevent proper operation.
- Use a soft, clean, dry cloth to clean any lenses (such as camera, proximity sensor, and light sensor lenses).
- Use only the supplied or an approved replacement antenna. Unauthorized antennas, modifications, or attachments could damage the device and may violate regulations governing radio devices.

All of the above suggestions apply equally to your device, battery, charger, or any enhancement. If any device is not working properly, take it to the nearest authorized service facility for service.

• ADDITIONAL SAFETY INFORMATION

Operating environment

Remember to follow any special regulations in force in any area and always switch off your device when its use is prohibited or when it may cause interference or danger. Use the device only in its normal operating positions. To maintain compliance with radio frequency exposure guidelines only use accessories approved by Nokia for use with this device. When the device is on and being worn on the body, always use an approved carrying case.

Medical devices

Operation of any radio transmitting equipment, including wireless phones, may interfere with the functionality of inadequately protected medical devices. Consult a physician or the manufacturer of the medical device to determine if they are adequately shielded from external RF energy or if you have any questions. Switch off your phone in health care facilities when any regulations posted in these areas instruct you to do so. Hospitals or health care facilities may be using equipment that could be sensitive to external RF energy.

PACEMAKERS

Pacemaker manufacturers recommend that a minimum separation of 6 in (15.3 cm) be maintained between a wireless phone and a pacemaker to avoid potential interference with the pacemaker. These recommendations are consistent with the independent research by and recommendations of Wireless Technology Research. To minimize the potential for interference, persons with pacemakers should:

- Always keep the device more than 6 in (15.3 cm) from their pacemaker when the device is switched on
- Not carry the device in a breast pocket
- Hold the device to the ear opposite the pacemaker

If you have any reason to suspect that interference is taking place, switch off your device immediately.

HEARING AID

Some digital wireless devices may interfere with some hearing aids. If interference occurs, consult your service provider.

VEHICLES

RF signals may affect improperly installed or inadequately shielded electronic systems in motor vehicles such as electronic fuel injection systems, electronic antiskid (antilock) braking systems, electronic speed control systems, air bag systems. For more information, check with the manufacturer or its representative of your vehicle or any equipment that has been added.

Only qualified personnel should service the device, or install the device in a vehicle. Faulty installation or service may be dangerous and may invalidate any warranty that may apply to the device. Check regularly that all wireless device equipment in your vehicle is mounted and operating properly. Do not store or carry flammable liquids, gases, or explosive materials in the same compartment as the device, its parts, or enhancements. For vehicles equipped with an air bag, remember that an air bag inflates with great force. Do not place objects, including installed or portable wireless equipment in the area over the air bag or in the air bag deployment area. If in-vehicle wireless equipment is improperly installed and the air bag inflates, serious injury could result.

Potentially explosive environments

Switch off your device when in any area with a potentially explosive atmosphere and obey all signs and instructions. Potentially explosive atmospheres include areas where you would normally be advised to turn off your vehicle engine. Sparks in such areas could cause an explosion or fire resulting in bodily injury or even death. Switch off the device at refueling points such as near gas pumps at service stations. Observe restrictions on the use of radio equipment in fuel depots, storage, and distribution areas, chemical plants or where blasting operations are in progress. Areas with a potentially explosive atmosphere are often but not always clearly marked. They include below deck on boats, chemical transfer or storage facilities, vehicles using liquefied petroleum gas (such as propane or butane), and areas where the air contains chemicals or particles such as grain, dust or metal powders.

FCC regulations prohibit using your wireless device while in the air. The use of wireless telephones in an aircraft may be dangerous to the operation of the aircraft, disrupt the wireless telephone network, and may be illegal.

Failure to observe these instructions may lead to suspension or denial of telephone services to the offender, legal action, or both.

EMERGENCY CALLS



Important: Wireless phones, including this phone, operate using radio signals, wireless networks, landline networks, and user-programed functions. Because of this, connections in all conditions cannot be guaranteed. You should never rely solely on any wireless phone for essential communications like medical emergencies.

To make an emergency call:

- 1 If the phone is not on, switch it on. Check for adequate signal strength. Some networks may require that a valid SIM card is properly inserted in the phone.
- 2 Press the **End** key as many times as needed to clear the display and ready the phone for calls.
- 3 Key in the official emergency number for your present location. Emergency numbers vary by location.
- 4 Press the **Talk** key.

If certain features are in use, you may first need to turn those features off before you can make an emergency call. Consult this guide or your service provider. When making an emergency call, give all the necessary information as accurately as possible. Your wireless phone may be the only means of communication at the scene of an accident. Do not end the call until given permission to do so.

CERTIFICATION INFORMATION (SAR)

THIS MODEL PHONE MEETS THE GOVERNMENT'S REQUIREMENTS FOR EXPOSURE TO RADIO WAVES.

Your wireless phone is a radio transmitter and receiver. It is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government. These limits are part of comprehensive guidelines and establish permitted levels of RF energy for the general population. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health.

The exposure standard for wireless mobile phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.* Tests for SAR are conducted using standard operating positions accepted by the FCC with the phone transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the phone while operating can be well below the maximum value. This is because the phone is designed to operate at multiple power levels so as to use only the power required to reach the network. In general, the closer you are to a wireless base station antenna, the lower the power output.

Before a phone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (for example, at the ear and worn on the body) as required by the FCC for each model.

The highest SAR value for this model phone as reported to the FCC when tested for use at the ear is 0.50 W/kg, and when worn on the body, as described in this user guide, is 1.25 W/kg. (Body-worn measurements differ among phone models, depending upon available enhancements and FCC requirements).

While there may be differences between the SAR levels of various phones and at various positions, they all meet the government requirement. The FCC has granted an Equipment Authorization for this model phone with all reported SAR levels evaluated as in compliance with the FCC RF exposure guidelines. SAR information on this model phone is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/fccid> after searching on FCC ID QVWNHL-10.

For body worn operation, this phone has been tested and meets the FCC RF exposure guidelines for use with a carry case, belt clip, or holder that contains no metal and that positions the handset a minimum of 5/8-inch (1.5 cm) from the body. Use of other carry cases, belt clips, or holders may not ensure compliance with FCC RF exposure guidelines. If you do not use a body-worn accessory and are not holding the phone at the ear, position the handset a minimum of 5/8-inch (1.5 cm) from your body when the phone is switched on.

*In the United States and Canada, the SAR limit for mobile phones used by the public is 1.6 watts/kilogram (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements. SAR values may vary depending on national reporting requirements and the network band. For SAR information in other regions please look under product information at **www.nokiausa.com**.

• TECHNICAL INFORMATION

Feature	Specification
Weight	4.375 oz with BL-5C 850 mAh battery
Size	4.27 x 2.29 x .94 in. (length, width, thickness)
Frequency Range	Lowband 880–915 MHz (TX) 925–960 MHz (RX) Highband 1800 1710–785 MHz (TX) 1805–1880 MHz (TX) Highband 1850–1910 MHz (TX) 1930–1990 MHz (RX)
Transmitter Output Power	Up to 2 W
Battery Voltage	3.7 V nominal
Operating Temperature	14°F to + 131°F (–10°C to + 55°C)

14 Nokia One-year Limited Warranty

Nokia Inc. ("Nokia") warrants that this cellular phone ("Product") is free from defects in material and workmanship that result in Product failure during normal usage, according to the following terms and conditions:

- 1 The limited warranty for the Product extends for ONE (1) year beginning on the date of the purchase of the Product. This one year period is extended by each whole day that the Product is out of your possession for repair under this warranty.
- 2 The limited warranty extends only to the original purchaser ("Consumer") of the Product and is not assignable or transferable to any subsequent purchaser/end-user.
- 3 The limited warranty extends only to Consumers who purchase the Product in the United States of America.
- 4 During the limited warranty period, Nokia will repair, or replace, at Nokia's sole option, any defective parts, or any parts that will not properly operate for their intended use with new or refurbished replacement items if such repair or replacement is needed because of product malfunction or failure during normal usage. No charge will be made to the Consumer for any such parts. Nokia will also pay for the labor charges incurred by Nokia in repairing or replacing the defective parts. The limited warranty does not cover defects in appearance, cosmetic, decorative or structural items, including framing, and any non-operative parts. Nokia's limit of liability under the limited warranty shall be the actual cash value of the Product at the time the Consumer returns the Product for repair, determined by the price paid by the Consumer for the Product less a reasonable amount for usage. Nokia shall not be liable for any other losses or damages. These remedies are the Consumer's exclusive remedies for breach of warranty.
- 5 Upon request from Nokia, the Consumer must prove the date of the original purchase of the Product by a dated bill of sale or dated itemized receipt.
- 6 The Consumer shall bear the cost of shipping the Product to Nokia in Melbourne, Florida. Nokia shall bear the cost of shipping the Product back to the Consumer after the completion of service under this limited warranty.

- 7 The Consumer shall have no coverage or benefits under this limited warranty if any of the following conditions are applicable:
- a) The Product has been subjected to abnormal use, abnormal conditions, improper storage, exposure to moisture or dampness, unauthorized modifications, unauthorized connections, unauthorized repair, misuse, neglect, abuse, accident, alteration, improper installation, or other acts which are not the fault of Nokia, including damage caused by shipping.
 - b) The Product has been damaged from external causes such as collision with an object, or from fire, flooding, sand, dirt, windstorm, lightning, earthquake or damage from exposure to weather conditions, an Act of God, or battery leakage, theft, blown fuse, or improper use of any electrical source, damage caused by computer or internet viruses, bugs, worms, Trojan Horses, cancelbots or damage caused by the connection to other products not recommended for interconnection by Nokia.
 - c) Nokia was not advised in writing by the Consumer of the alleged defect or malfunction of the Product within fourteen (14) days after the expiration of the applicable limited warranty period.
 - d) The Product serial number plate or the enhancement data code has been removed, defaced or altered.
 - e) The defect or damage was caused by the defective function of the cellular system or by inadequate signal reception by the external antenna, or viruses or other software problems introduced into the Product.
- 8 Nokia does not warrant uninterrupted or error-free operation of the Product. If a problem develops during the limited warranty period, the Consumer shall take the following step-by-step procedure:
- a) The Consumer shall return the Product to the place of purchase for repair or replacement processing.
 - b) If "a" is not convenient because of distance (more than 50 miles) or for other good cause, the Consumer shall ship the Product prepaid and insured to:
Nokia Inc., Attn: Repair Department
795 West Nasa Blvd.
Melbourne, FL 32901
 - c) The Consumer shall include a return address, daytime phone number and/or fax number, complete description of the problem, proof of purchase and service agreement (if applicable). Expenses related to removing the Product from an installation are not covered under this limited warranty.
 - d) The Consumer will be billed for any parts or labor charges not covered by this limited warranty. The Consumer will be responsible for any expenses related to reinstallation of the Product.

- e) Nokia will repair the Product under the limited warranty within 30 days after receipt of the Product. If Nokia cannot perform repairs covered under this limited warranty within 30 days, or after a reasonable number of attempts to repair the same defect, Nokia at its option, will provide a replacement Product or refund the purchase price of the Product less a reasonable amount for usage. In some states the Consumer may have the right to a loaner if the repair of the Product takes more than ten (10) days. Please contact the Customer Service Center at Nokia at the telephone number listed at the end of this warranty if you need a loaner and the repair of the Product has taken or is estimated to take more than ten (10) days.
 - f) If the Product is returned during the limited warranty period, but the problem with the Product is not covered under the terms and conditions of this limited warranty, the Consumer will be notified and given an estimate of the charges the Consumer must pay to have the Product repaired, with all shipping charges billed to the Consumer. If the estimate is refused, the Product will be returned freight collect. If the Product is returned after the expiration of the limited warranty period, Nokia's normal service policies shall apply and the Consumer will be responsible for all shipping charges.
- 9 You (the Consumer) understand that the product may consist of refurbished equipment that contains used components, some of which have been reprocessed. The used components comply with Product performance and reliability specifications.
- 10 ANY IMPLIED WARRANTY OF MERCHANTABILITY, OR FITNESS FOR A PARTICULAR PURPOSE OR USE, SHALL BE LIMITED TO THE DURATION OF THE FOREGOING LIMITED WRITTEN WARRANTY. OTHERWISE, THE FOREGOING LIMITED WARRANTY IS THE CONSUMER'S SOLE AND EXCLUSIVE REMEDY AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED. NOKIA SHALL NOT BE LIABLE FOR SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO LOSS OF ANTICIPATED BENEFITS OR PROFITS, LOSS OF SAVINGS OR REVENUE, LOSS OF DATA, PUNITIVE DAMAGES, LOSS OF USE OF THE PRODUCT OR ANY ASSOCIATED EQUIPMENT, COST OF CAPITAL, COST OF ANY SUBSTITUTE EQUIPMENT OR FACILITIES, DOWNTIME, THE CLAIMS OF ANY THIRD PARTIES, INCLUDING CUSTOMERS, AND INJURY TO PROPERTY, RESULTING FROM THE PURCHASE OR USE OF THE PRODUCT OR ARISING FROM BREACH OF THE WARRANTY, BREACH OF CONTRACT, NEGLIGENCE, STRICT TORT, OR ANY OTHER LEGAL OR EQUITABLE THEORY, EVEN IF NOKIA KNEW OF THE LIKELIHOOD OF SUCH DAMAGES. NOKIA SHALL NOT BE LIABLE FOR DELAY IN RENDERING SERVICE UNDER THE LIMITED WARRANTY, OR LOSS OF USE DURING THE PERIOD THAT THE PRODUCT IS BEING REPAIRED.

- 11 Some states do not allow limitation of how long an implied warranty lasts, so the one year warranty limitation may not apply to you (the Consumer). Some states do not allow the exclusion or limitation of incidental and consequential damages, so certain of the above limitations or exclusions may not apply to you (the Consumer). This limited warranty gives the Consumer specific legal rights and the Consumer may also have other rights which vary from state to state.
- 12 Nokia neither assumes nor authorizes any authorized service center or any other person or entity to assume for it any other obligation or liability beyond that which is expressly provided for in this limited warranty including the provider or seller of any extended warranty or service agreement.
- 13 This is the entire warranty between Nokia and the Consumer, and supersedes all prior and contemporaneous agreements or understandings, oral or written, relating to the Product, and no representation, promise or condition not contained herein shall modify these terms.
- 14 This limited warranty allocates the risk of failure of the Product between the Consumer and Nokia. The allocation is recognized by the Consumer and is reflected in the purchase price.
- 15 Any action or lawsuit for breach of warranty must be commenced within eighteen (18) months following purchase of the Product.
- 16 Questions concerning this limited warranty may be directed to:
Nokia Inc.
Attn: Customer Service
7725 Woodland Center Blvd., Ste. 150
Tampa, FL 33614
Telephone: 1-888-NOKIA-2U (1-888-665-4228)
Facsimile: (813) 287-6612
TTY/TDD Users Only: 1-800-24-NOKIA (1-800-246-6542)
- 17 The limited warranty period for Nokia supplied attachments and accessories is specifically defined within their own warranty cards and packaging.

NOTES

Appendix A

Message from the CTIA (Cellular Telecommunications & Internet Association) to all users of mobile phones

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Safety is the most important call you will ever make.

A Guide to Safe and Responsible Wireless Phone Use

Tens of millions of people in the U.S. today take advantage of the unique combination of convenience, safety and value delivered by the wireless telephone. Quite simply, the wireless phone gives people the powerful ability to communicate by voice--almost anywhere, anytime--with the boss, with a client, with the kids, with emergency personnel or even with the police. Each year, Americans make billions of calls from their wireless phones, and the numbers are rapidly growing.

But an important responsibility accompanies those benefits, one that every wireless phone user must uphold. When driving a car, driving is your first responsibility. A wireless phone can be an invaluable tool, but good judgment must be exercised at all times while driving a motor vehicle--whether on the phone or not.

The basic lessons are ones we all learned as teenagers. Driving requires alertness, caution and courtesy. It requires a heavy dose of basic common sense--keep your head up, keep your eyes on the road, check your mirrors frequently and watch out for other drivers. It requires obeying all traffic signs and signals and staying within the speed limit. It means using seatbelts and requiring other passengers to do the same.

But with wireless phone use, driving safely means a little more. This brochure is a call to wireless phone users everywhere to make safety their first priority when behind the wheel of a car. Wireless telecommunications is keeping us in touch, simplifying our lives, protecting us in emergencies and providing opportunities to help others in need.

When it comes to the use of wireless phones, *safety is your most important call.*

Wireless Phone "Safety Tips"

Below are safety tips to follow while driving and using a wireless phone which should be easy to remember.

- 1 Get to know your wireless phone and its features such as speed dial and redial. Carefully read your instruction manual and learn to take advantage of valuable features most phones offer, including automatic redial and memory. Also, work to memorize the phone keypad so you can use the speed dial function without taking your attention off the road.
- 2 When available, use a hands free device. A number of hands free wireless phone accessories are readily available today. Whether you choose an installed mounted device for your wireless phone or a speaker phone accessory, take advantage of these devices if available to you.
- 3 Position your wireless phone within easy reach. Make sure you place your wireless phone within easy reach and where you can grab it without removing your eyes from the road. If you get an incoming call at an inconvenient time, if possible, let your voice mail answer it for you.

- 4 Suspend conversations during hazardous driving conditions or situations. Let the person you are speaking with know you are driving; if necessary, suspend the call in heavy traffic or hazardous weather conditions. Rain, sleet, snow and ice can be hazardous, but so is heavy traffic. As a driver, your first responsibility is to pay attention to the road.
- 5 Do not take notes or look up phone numbers while driving. If you are reading an address book or business card, or writing a "to do" list while driving a car, you are not watching where you are going. It's common sense. Don't get caught in a dangerous situation because you are reading or writing and not paying attention to the road or nearby vehicles.
- 6 Dial sensibly and assess the traffic; if possible, place calls when you are not moving or before pulling into traffic. Try to plan your calls before you begin your trip or attempt to coincide your calls with times you may be stopped at a stop sign, red light or otherwise stationary. But if you need to dial while driving, follow this simple tip--dial only a few numbers, check the road and your mirrors, then continue.
- 7 Do not engage in stressful or emotional conversations that may be distracting. Stressful or emotional conversations and driving do not mix--they are distracting and even dangerous when you are behind the wheel of a car. Make people you are talking with aware you are driving and if necessary, suspend conversations which have the potential to divert your attention from the road.
- 8 Use your wireless phone to call for help. Your wireless phone is one of the greatest tools you can own to protect yourself and your family in dangerous situations--with your phone at your side, help is only three numbers away. Dial 9-1-1 or other local emergency number in the case of fire, traffic accident, road hazard or medical emergency. Remember, it is a free call on your wireless phone!
- 9 Use your wireless phone to help others in emergencies. Your wireless phone provides you a perfect opportunity to be a "Good Samaritan" in your community. If you see an auto accident, crime in progress or other serious emergency where lives are in danger, call 9-1-1 or other local emergency number, as you would want others to do for you.
- 10 Call roadside assistance or a special wireless non-emergency assistance number when necessary. Certain situations you encounter while driving may require attention, but are not urgent enough to merit a call for emergency services. But you still can use your wireless phone to lend a hand. If you see a broken-down vehicle posing no serious hazard, a broken traffic signal, a minor traffic accident where no one appears injured or a vehicle you know to be stolen, call roadside assistance or other special non-emergency wireless number.

Careless, distracted individuals and people driving irresponsibly represent a hazard to everyone on the road. Since 1984, the Cellular Telecommunications Industry Association and the wireless industry have conducted educational outreach to inform wireless phone users of their responsibilities as safe drivers and good citizens. As we approach a new century, more and more of us will take advantage of the benefits of wireless telephones. And, as we take to the roads, we all have a responsibility to drive safely.

The wireless industry reminds you to use your phone safely when driving.

For more information, please call 1-888-901-SAFE.

For updates: <http://www.wow-com.com/consumer/issues/driving/articles.cfm?ID=85>

Appendix B

Message from the FDA (U.S. Food and Drug Administration) to all users of mobile phones

©July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>

1. Do wireless phones pose a health hazard?

The available scientific evidence does not show that any health problems are associated with using wireless phones. There is no proof, however, that wireless phones are absolutely safe. Wireless phones emit low levels of radiofrequency energy (RF) in the microwave range while being used. They also emit very low levels of RF when in the stand-by mode. Whereas high levels of RF can produce health effects (by heating tissue), exposure to low level RF that does not produce heating effects causes no known adverse health effects. Many studies of low level RF exposures have not found any biological effects. Some studies have suggested that some biological effects may occur, but such findings have not been confirmed by additional research. In some cases, other researchers have had difficulty in reproducing those studies, or in determining the reasons for inconsistent results.

2. What is FDA's role concerning the safety of wireless phones?

Under the law, FDA does not review the safety of radiation-emitting consumer products such as wireless phones before they can be sold, as it does with new drugs or medical devices. However, the agency has authority to take action if wireless phones are shown to emit radiofrequency energy (RF) at a level that is hazardous to the user. In such a case, FDA could require the manufacturers of wireless phones to notify users of the health hazard and to repair, replace or recall the phones so that the hazard no longer exists.

Although the existing scientific data do not justify FDA regulatory actions, FDA has urged the wireless phone industry to take a number of steps, including the following:

- Support needed research into possible biological effects of RF of the type emitted by wireless phones;
- Design wireless phones in a way that minimizes any RF exposure to the user that is not necessary for device function; and
- Cooperate in providing users of wireless phones with the best possible information on possible effects of wireless phone use on human health.

FDA belongs to an interagency working group of the federal agencies that have responsibility for different aspects of RF safety to ensure coordinated efforts at the federal level. The following agencies belong to this working group:

- National Institute for Occupational Safety and Health
- Environmental Protection Agency
- Federal Communications Commission
- Occupational Safety and Health Administration
- National Telecommunications and Information Administration

The National Institutes of Health participates in some interagency working group activities, as well.

FDA shares regulatory responsibilities for wireless phones with the Federal Communications Commission (FCC). All phones that are sold in the United States must comply with FCC safety guidelines that limit RF exposure. FCC relies on FDA and other health agencies for safety questions about wireless phones. FCC also regulates the base stations that the wireless phone networks rely upon. While these base stations operate at higher power than do the wireless phones themselves, the RF exposures that people get from these base stations are typically thousands of times lower than those they can get from wireless phones. Base stations are thus not the subject of the safety questions discussed in this document.

3. What kinds of phones are the subject of this update?

The term wireless phone refers here to hand-held wireless phones with built-in antennas, often called cell mobile or PCS phones. These types of wireless phones can expose the user to measurable radiofrequency energy (RF) because of the short distance between the phone and the user's head. These RF exposures are limited by Federal Communications Commission safety guidelines that were developed with the advice of FDA and other federal health and safety agencies. When the phone is located at greater distances from the user, the exposure to RF is drastically lower because a person's RF exposure decreases rapidly with increasing distance from the source. The so-called cordless phones, which have a base unit connected to the telephone wiring in a house, typically operate at far lower power levels, and thus produce RF exposures far below the FCC safety limits.

4. What are the results of the research done already?

The research done thus far has produced conflicting results, and many studies have suffered from flaws in their research methods. Animal experiments investigating the effects of radiofrequency energy (RF) exposures characteristic of wireless phones have yielded conflicting results that often cannot be repeated in other laboratories. A few animal studies, however, have suggested that low levels of RF could accelerate the development of cancer in laboratory animals. However, many of the studies that showed increased tumor development used animals that had been genetically engineered or treated with cancer-causing chemicals so as to be pre-disposed to develop cancer in the absence of RF exposure. Other studies exposed the animals to RF for up to 22 hours per day. These conditions are not similar to the conditions under which people use wireless phones, so we don't know with certainty what the results of such studies mean for human health.

Three large epidemiology studies have been published since December 2000. Between them, the studies investigated any possible association between the use of wireless phones and primary brain cancer, glioma, meningioma, or acoustic neuroma, tumors of the brain or salivary gland, leukemia, or other cancers. None of the studies demonstrated the existence of any harmful health effects from wireless phone RF exposures. However, none of the studies can answer questions about long-term exposures, since the average period of phone use in these studies was around three years.

5. What research is needed to decide whether RF exposure from wireless phones poses a health risk?

A combination of laboratory studies and epidemiological studies of people actually using wireless phones would provide some of the data that are needed. Lifetime animal exposure studies could be completed in a few years. However, very large numbers of animals would be needed to provide reliable proof of a cancer promoting effect if one exists. Epidemiological studies can provide data that is directly applicable to human populations, but 10 or more years follow-up may be needed to provide answers about some health effects, such as cancer. This is because the interval between the time of exposure to a cancer-causing agent and the time tumors develop - if they do - may be many, many years. The interpretation of epidemiological studies is hampered by difficulties in measuring actual RF exposure during day-to-day use of wireless phones. Many factors affect this measurement, such as the angle at which the phone is held, or which model of phone is used.

6. What is FDA doing to find out more about the possible health effects of wireless phone RF?

FDA is working with the U.S. National Toxicology Program and with groups of investigators around the world to ensure that high priority animal studies are conducted to address important questions about the effects of exposure to radiofrequency energy (RF).

FDA has been a leading participant in the World Health Organization International Electromagnetic Fields (EMF) Project since its inception in 1996. An influential result of this work has been the development of a detailed agenda of research needs that has driven the establishment of new research programs around the world. The Project has also helped develop a series of public information documents on EMF issues.

FDA and the Cellular Telecommunications & Internet Association (CTIA) have a formal Cooperative Research and Development Agreement (CRADA) to do research on wireless phone safety. FDA provides the scientific oversight, obtaining input from experts in government, industry, and academic organizations. CTIA-funded research is conducted through contracts to independent investigators. The initial research will include both laboratory studies and studies of wireless phone users. The CRADA will also include a broad assessment of additional research needs in the context of the latest research developments around the world.

7. How can I find out how much radiofrequency energy exposure I can get by using my wireless phone?

All phones sold in the United States must comply with Federal Communications Commission (FCC) guidelines that limit radiofrequency energy (RF) exposures. FCC established these guidelines in consultation with FDA and the other federal health and safety agencies. The FCC limit for RF exposure from wireless telephones is set at a Specific Absorption Rate (SAR) of 1.6 watts per kilogram (1.6 W/kg). The FCC limit is consistent with the safety standards developed by the Institute of Electrical and Electronic Engineering (IEEE) and the National Council on Radiation Protection and Measurement. The exposure limit takes into consideration the body's ability to remove heat from the tissues that absorb energy from the wireless phone and is set well below levels known to have effects.

Manufacturers of wireless phones must report the RF exposure level for each model of phone to the FCC. The FCC website (<http://www.fcc.gov/oet/rfsafety>) gives directions for locating the FCC identification number on your phone so you can find your phone's RF exposure level in the online listing.

8. What has FDA done to measure the radiofrequency energy coming from wireless phones?

The Institute of Electrical and Electronic Engineers (IEEE) is developing a technical standard for measuring the radiofrequency energy (RF) exposure from wireless phones and other wireless handsets with the participation and leadership of FDA scientists and engineers. The standard, Recommended Practice for Determining the Spatial-Peak Specific Absorption Rate (SAR) in the Human Body Due to Wireless Communications Devices: Experimental Techniques, sets forth the first consistent test methodology for measuring the rate at which RF is deposited in the heads of wireless phone users. The test method uses a tissue-simulating model of the human head. Standardized SAR test methodology is expected to greatly improve the consistency of measurements made at different laboratories on the same phone. SAR is the measurement of the amount of energy absorbed in tissue, either by the whole body or a small part of the body. It is measured in watts/kg (or milliwatts/g) of matter. This measurement is used to determine whether a wireless phone complies with safety guidelines.

9. What steps can I take to reduce my exposure to radiofrequency energy from my wireless phone?

If there is a risk from these products--and at this point we do not know that there is--it is probably very small. But if you are concerned about avoiding even potential risks, you can take a few simple steps to minimize your exposure to radiofrequency energy (RF). Since time is a key factor in how much exposure a person receives, reducing the amount of time spent using a wireless phone will reduce RF exposure.

If you must conduct extended conversations by wireless phone every day, you could place more distance between your body and the source of the RF, since the exposure level drops off dramatically with distance. For example, you could use a headset and carry the wireless phone away from your body or use a wireless phone connected to a remote antenna.

Again, the scientific data do not demonstrate that wireless phones are harmful. But if you are concerned about the RF exposure from these products, you can use measures like those described above to reduce your RF exposure from wireless phone use.

10. What about children using wireless phones?

The scientific evidence does not show a danger to users of wireless phones, including children and teenagers. If you want to take steps to lower exposure to radiofrequency energy (RF), the measures described above would apply to children and teenagers using wireless phones. Reducing the time of wireless phone use and increasing the distance between the user and the RF source will reduce RF exposure. Some groups sponsored by other national governments have advised that children be discouraged from using wireless phones at all. For example, the government in the United Kingdom distributed leaflets containing such a recommendation in December 2000.

They noted that no evidence exists that using a wireless phone causes brain tumors or other ill effects. Their recommendation to limit wireless phone use by children was strictly precautionary; it was not based on scientific evidence that any health hazard exists.

11. What about wireless phone interference with medical equipment?

Radiofrequency energy (RF) from wireless phones can interact with some electronic devices. For this reason, FDA helped develop a detailed test method to measure electromagnetic interference (EMI) of implanted cardiac pacemakers and defibrillators from wireless telephones. This test method is now part of a standard sponsored by the Association for the Advancement of Medical instrumentation (AAMI). The final draft, a joint effort by FDA, medical device manufacturers, and many other groups, was completed in late 2000. This standard will allow manufacturers to ensure that cardiac pacemakers and defibrillators are safe from wireless phone EMI. FDA has tested hearing aids for interference from handheld wireless phones and helped develop a voluntary standard sponsored by the Institute of Electrical and Electronic Engineers (IEEE). This standard specifies test methods and performance requirements for hearing aids and wireless phones so that no interference occurs when a person uses a compatible phone and a accompanied hearing aid at the same time. This standard was approved by the IEEE in 2000.

FDA continues to monitor the use of wireless phones for possible interactions with other medical devices. Should harmful interference be found to occur, FDA will conduct testing to assess the interference and work to resolve the problem.

12. Where can I find additional information?

For additional information, please refer to the following resources:

- FDA web page on wireless phones
<http://www.fda.gov/cdrh/phones/index.html>
- Federal Communications Commission (FCC) RF Safety Program
<http://www.fcc.gov/oet/rfsafety>
- International Commission on Non-Ionizing Radiation Protection
<http://www.icnirp.de>
- World Health Organization (WHO) International EMF Project
<http://www.who.int/emf>
- National Radiological Protection Board (UK)
<http://www.nrp.b.org.uk/>

July 18, 2001 For updates: <http://www.fda.gov/cdrh/phones>

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Para obtener un manual del usuario en español favor de llamar o enviar un fax al teléfono 1-888-NOKIA-2U, fax 813-249-9619.

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